Vidyalankar Polytechnic

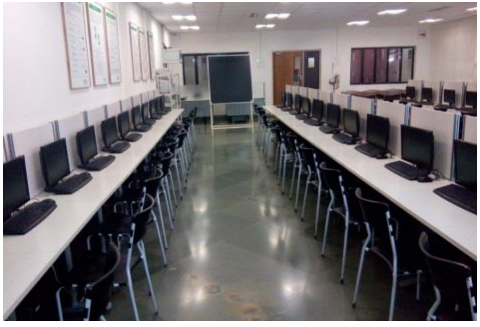
V-Ideas

2023-2024

Be sure with

Vidyalankar

Since 1960



Preface

- **Vidyalankar is a 'Sanskrit' word combining two words Vidya + Alankar. Where Vidya means knowledge and Alankar means Ornament, the essence being that 'knowledge is the true ornament of a progressive mind'.**

- **Vidyalankar Polytechnic is one of the leading college in Mumbai, approved by AICTE, DTE Maharashtra State and Affiliated to MSBTE. It offers under graduate courses in engineering**

- **Vidyalankar Polytechnic was established by Vidyalankar Dyanapeeth Trust in 2002 under the dynamic leadership of Shri. C. S. Deshpande with the aim of imparting Technical Education in various fields of Engineering and Technology. It is located at the heart of Mumbai at Wadala(E).**

- **Courses offered are Computer Engineering, Information Technology, Electronics and Telecommunication Engineering.**

- **The college has excellent infrastructure for Class rooms, Technical library, Laboratories and latest computing facilities.**

Vidyalankar Polytechnic

Vision

To achieve excellence in imparting technical education so as to meet the professional and societal needs.

Mission

- Developing technical skills by imparting knowledge and providing hands on experience.
- Creating an environment that nurtures ethics, leadership and team building.
- Providing industrial exposure for minimizing the gap between academics and industry.

Principal Speak

Dr. Ashish Ukidve, Principal
Vidyalankar Polytechnic

Vidyalankar Polytechnic has always believed in providing quality technical education to the student who aspire to become skilled engineers .

We at Vidyalankar put forth for students a challenging ground; tracking them to learn and imply in their career and professional future. Emphasizing to skill and develop their opportunity to widen their innovative horizon.

V-Ideas is compilation of final year student's project ideas that have been processed and developed after fine scrutinizing tuning by subject expertise. The selected projects were much appreciated by the judges boosting the morale of students.

Technovation the exploration of Technology and Innovation is the annual project exhibition and competition organised by Vidyalankar Polytechnic for final year students of various branches. Technovation enables students to exhibit and display their innovative skills, thus giving them an opportunity to manifest their hidden skills and ideas. This platform has privileged the students to think in new areas of their skills and present it in the best possible way.

Chief Technology Officer (CTO) Speak

Prof. Anjum Mujawar, CTO
Vidyalankar Polytechnic

"A project is complete when it starts working for you rather than you are working for it"

-Scott Allen

The capstone project is designed to consolidate final-year students' learning with valuable hands-on experience to help develop them into well-prepared and well-rounded graduates. It provides them an opportunity to use tools and techniques and implement methods. The capstone project encompasses a real-life working culture which aims to instill a set of specific skills that are both highly valued by employers and will ultimately serve students well into their careers.

To complete the project, students need to plan, estimate, and manage their time and energy. Students deepen their knowledge across disciplines and work effectively in teams while engaging professionally with their peers and professors. Solving real industrial problems is encouraged and facilitated by project guide.

We, at Vidyalankar, provide all the required facilities to complete their project. We also promote industry institute interaction by assigning industry-based problems in the form of project to our students.

V-ideas culminates V-Technovation 2024

"All of us do not have equal talent. But , all of us have an equal opportunity to develop our talents." - A.P.J Abdul Kalam

Vidyalankar Polytechnic has always believed in inculcating a synergetic and academic culture in its students, one that encourages them to be innovative and to be passionate about taking their ideas ahead.

V-Ideas are a collection of the final year project ideas of our students that have been nurtured after much rational thinking, fine-tuning and accurate reflection from teachers, guides and subject experts. The ideation stage is quite different from actual implementation; it is comparable to the transition from form to format, the regulated flow of ink from a nib which produces the actual writing. The Institute initiated an innovative idea of assembling the project ideas and transferring them into a hardcover book known as V-Ideas. This collection of projects acts as a future reference for First, Second and Third year students.

As a part of curriculum, students of diploma undertake a project related to their field and demonstrate the knowledge and skills gained on the subject of their choice. Students also take industry based projects for better and live exposure with the industry. The projects selected by the panel of experts are regularly monitored by the project guides. The innovative and creative projects are projected in V-Technovation. The projects won many awards at various competitions at other institutes.

V-Technovation provides a platform to diploma students to compete, interact and excel.

V-Ideas

Program
Computer Engineering

Program: Computer Engineering

Vision

To empower students with domain knowledge of Computer Engineering and interpersonal skills to cater to the industrial and societal needs.

Mission

- Encouraging academic excellence and a passion for learning through the use of learner-oriented teaching methodologies.
- Providing an environment that inculcates ethics and effective soft-skills and focuses on the development of learners.
- Establishing and reinforcing a symbiotic institute-industry interface so that learners can gain exposure to real-life applications of Information Technology.

Program Educational Objectives

PEO 1: To empower the students to apply their knowledge of various domains and cultivate a habit of life-long learning in them.

PEO 2: To develop the students' overall personality and thereby encourage just social behaviour in the students.

PEO 3: To provide an exposure to the industrial environment so as to keep them abreast with new trends.

Program Outcomes

PO1: Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2: Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO3: Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4: Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

Program Outcomes

PO5: Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6: Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7: Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes

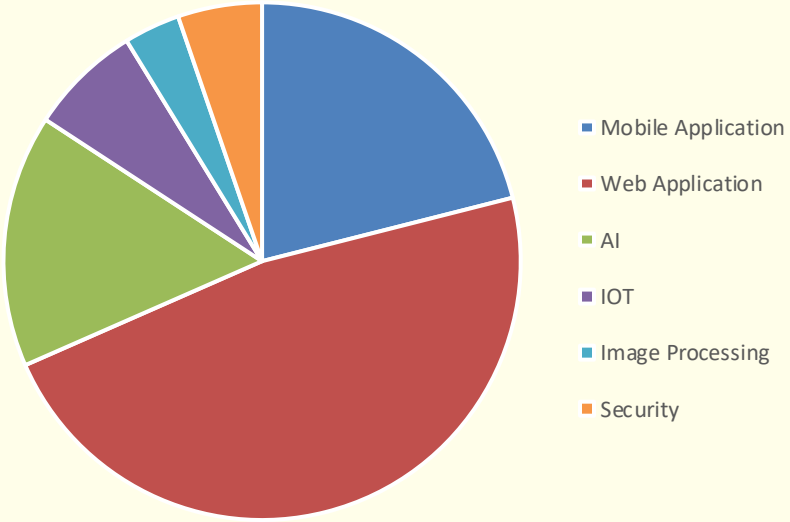
PSO1: Computer Software and Hardware Usage: Use state-of-the-art technologies for operation and application of computer software and hardware.

PSO2: Computer Engineering Maintenance: Maintain computer engineering related software and hardware systems.

Analysis of Capstone Project (2023-2024)

Domain Wise Project Distribution

Web Application	Mobile Application	AI & ML	IoT	Security	Image Processing
27	12	9	4	3	2
57					



Program: Computer Engineering

Program: Computer Engineering

Program: Computer Engineering

Program: Computer Engineering

Area ID	Project Area	Project ID	Project Title	Page No.
CO4	Web Application	CO4.1	Combat Management Training System	26
		CO4.2	Dessert Delivery Website	27
		CO4.3	Multi Sector Website	28
		CO4.4	E-FYPQ	29
		CO4.5	Website for Mumbai GST Department	30
		CO4.6	E-Commerce Website for Health care products	31
		CO4.7	Website and WebApp for Vidya Niketan International Academy, Pune	32
		CO4.8	E-Internship	33
		CO4.9	Examination result analysis system	34
		CO4.10	HOPE-Donate for Tomorrow	35
		CO4.11	Jewellery Website using 360 Model	36
		CO4.12	Travel Agency WebSite	37
		CO4.13	School Website(KBPV School website)	38

Program: Computer Engineering

Area ID	Project Area	Project ID	Project Title	Page No.
CO4	Web Application	CO4.14	ERP Billing System	39
		CO4.15	Web to app convertor	40
		CO4.16	Sound and lights e commerce website	41
		CO4.17	Calling Connectivity	42
		CO4.18	Website for Clinic	43
		CO4.19	Website for Coaching Classes(Knowledge Academy)	44
		CO4.20	Vidyagiri	45
		CO4.21	Interior Design and Constuction Website with Chatbot	46
		CO4.22	E-Commerce Website	47
		CO4.23	Attendance Synchronization	48
		CO4.24	E-Waste RRR (Reduce, Reuse, Recycle)	49

Program: Computer Engineering

Program :Computer Engineering

Project Title : Solar Panel Optimization

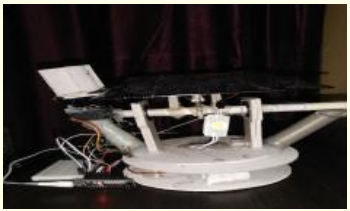
Domain : IoT

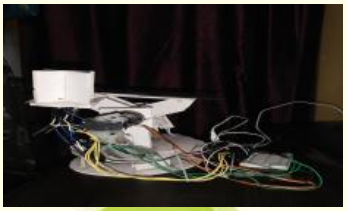
Name of Project Guide : Er Anjali Gharat

Name of Students : 21203A0003 Hriday Devkar
21203A0004. Vedant Kadam
21203A0011. Durvesh Bhadgaonkar
21203A0016. Amey Sawant

Brief idea of Project: The solar panel tracking system enhances energy generation efficiency by automatically adjusting panel orientation to the sun's position. It employs sensors to detect sunlight angles, controlling motors for panel alignment. This optimizes solar absorption throughout the day, boosting energy output significantly. Users can monitor and regulate the system through an interface, ensuring consistent performance.

Screenshots of the Project / Photos of Working Model:





Applications:

- Solar Farms: Boost energy yield with precise sun tracking.
- Residential Rooftops: Elevate home solar panel performance.
- Off-grid Solutions: Enhance self-sustaining power systems.
- Commercial Buildings: Amplify green energy initiatives.

Program :Computer Engineering

Project Title : Road Safety

Domain : IOT

Name of Project Guide : Er.Anjali Gharat

Name of Students : 21203A0018- Aboli bhosale
21203A0020 - Yash Dhokare
21203A0035 - Sarthak Hanamghar
21203A0038- Jui Sakpal

Brief idea of Project

In this project we are going to provide Smart Zebra Crossing in which the barricades will come across the Zebra Crossing while the signal is RED & when the signal turns GREEN barricades will open. If the signal is RED and any emergency vehicle comes then the signal will turn GREEN, and the barricades will open.

Screenshots of the Project / Photos of Working Model :

Applications:

- These projects are very useful for reducing accident and making human life much better.
- With the use of smart zebra crossing children's, senior citizens can easily cross the roads.

Program :Computer Engineering

Project Title : Digital Signage System

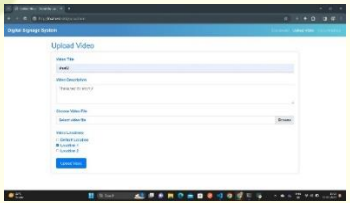
Domain : Artificial Intelligence & IoT

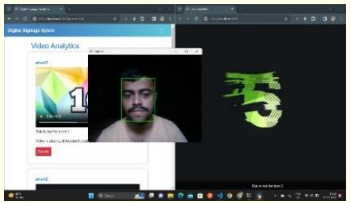
Name of Project Guide : Er. Manisha Pokharkar

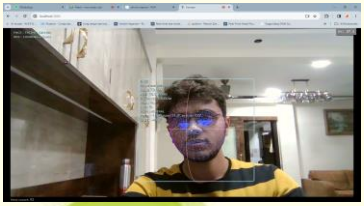
Name of Students : 21203C0007 – Yusuf Kondkari
21203C0009 – Dheeraj Vanmore
21203C0010 – Sahil Gawade
21203C0064 – Abhishek Patil

Brief idea of Project :- The project idea revolves around a digital signage system that aims to transform any screen into a versatile platform for displaying ads and engaging with customers. The key features of the product include a content management system for managing multiple screens, changing ads, and playing them in a loop. Additionally, the system captures screenshots of the displayed ads, maintains activity logs, and leverages a camera module to provide real-time audience count.

Screenshots of the Project / Photos of Working Model :







Applications:

Retail Stores**:** Digital signage is used for in-store advertising, displaying product promotions.

Education Institutions: Schools, colleges, and universities utilize digital signage for campus announcements, event promotions, and interactive learning experiences.

Program :Computer Engineering

Project Title : Smart wheelchair

Domain : IOT

Name of Project Guide : Er. Anjali Gharat

Name of Students : 21203C0021- Saloni Patil
21203C0056- Sarvesh Pawle
21203C0067- Varun Kadwe
22203C1003- Vijay Sakpal

Brief idea of Project :- "SMART WHEELCHAIR" is for people with disabilities like paralysis or limb loss, offering mobility through voice commands and added safety with joystick and sensors. This wheelchair is especially beneficial in healthcare settings, enhancing user independence while minimizing accidents. It incorporates voice recognition, sensors, and a joystick, all powered by a single battery for efficient operation.

Screenshots of the Project / Photos of Working Model :

Applications: 1. Hospitals 2. Home

Program :Computer Engineering

Project Title : AI Desktop Assistant

Domain : Artificial Intelligence

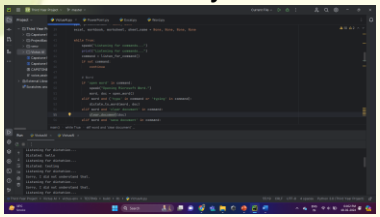
Name of Project Guide : Er .Vijay Patil

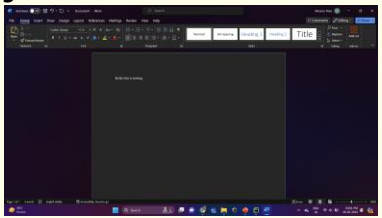
Name of Students : 21203A0001 – Atharva Amit Thite
21203A0005 – Ganesh Tanaji Lokhande
21203A0006 – Shubham Surendra Kamble

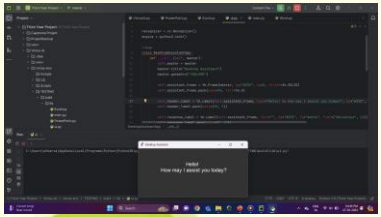
Brief idea of Project

A Python AI desktop Manager is a Software application designed to assist users with various Microsoft application task such as Microsoft Word, Microsoft Excel, Microsoft PowerPoint in their windows desktop environment using artificial intelligence capabilities. It typically includes features such as voice recognition, natural language processing, task automation, and integration with external services for fetching real- time information.

Screenshots of the Project / Photos of Working Model:







Applications:

A python AI desktop assistant streamlines user tasks on Windows by integrating voice commands and AI capabilities, enhancing productivity and workflow efficiency.

Program :Computer Engineering

Project Title :M2ADb (Fusion Db)

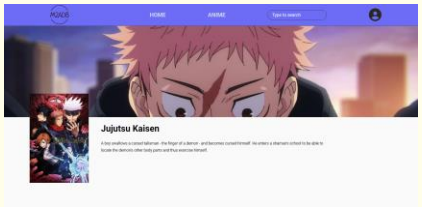
Domain : Artificial Intelligence

Name of Project Guide : Er. Sneha Patange

Name of Students : 21203A0025 Nimbudkar Afnaan
21203A0056 Namanshoo Pardikar
21203A0069 Uzair Shaikh

Brief idea of Project: To provide a common portal for Various kinds of media (Movies, Series, Anime, Manga, etc.)
To provide related customized suggestion based on machine learned algorithms.

Screenshots of the Project / Photos of Working Model:



Applications:

For all type of media one platform is available

Program :Computer Engineering

Project Title :Predictive Modelling and Analytics of Student's Grades.

Domain :Artificial Intelligence.

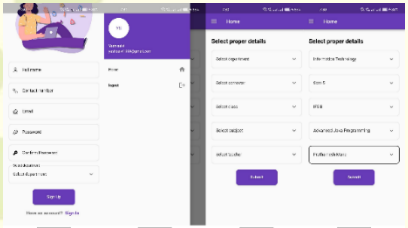
Name of Project Guide : Er . Poonam Pawar

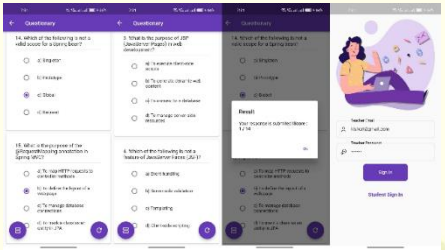
Name of Students : 21203A0030-Satardekar Pranjali Sanjay
21203A0063-Pramod Riya Pawar
21203A0064-Pramod Ruhee Pawar
21203A0070-Mohd Rizwan Shaikh

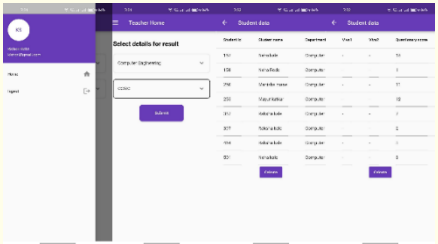
Brief idea of Project

- This project employs machine learning to predict student's final grades based on their Unit 1 and Unit 2 performance.
- It uses supervised learning techniques to analyze historical data and offer early insights into a student's potential final score.
- The system, implemented in Python, utilizes libraries like scikit-learn and TensorFlow, benefiting from Python's rich ecosystem for predictive modeling.

Screenshots of the Project / Photos of Working Model:







Applications:

- Institute.
- School.
- Coaching Classes

Program :Computer Engineering

Project Title : Resume Scanner

Domain : Artificial Intelligence

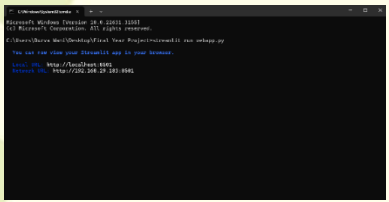
Name of Project Guide : Er. Vaishali Malkar

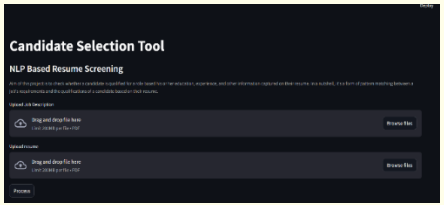
Name of Students : 21203B0027- :Athang Surve

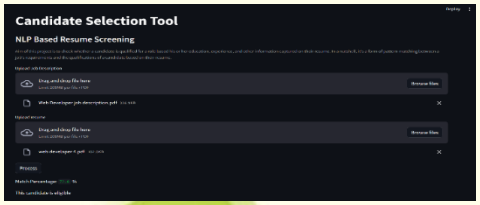
21203B0051- Purva Wani

Brief idea of Project : Aim of this project is to check whether a candidate is qualified for a role based his or her education, experience, and other information captured on their resume. In a nutshell, it's a form of pattern matching between a job's requirements and the qualifications of a candidate based on their resume.

Screenshots of the Project / Photos of Working Model :







Applications:

- This software allows recruiters to examine the background of individuals and determine their suitability for the job and company culture.
- Where there are time constraints for shortlisting resumes in company
- In short, resume scanner manages the hiring process.

Program :Computer Engineering

Project Title : URL Schield

Domain : Artificial Intelligence

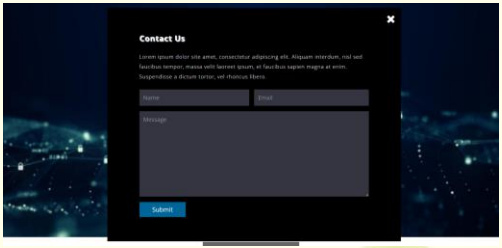
Name of Project Guide : Er.Manisha Pokharkar

Name of Students :
- 21203B0005 Sanika Kalchavkar
- 21203B0018 Isha Rawool
- 21203B0025 Shruti Mane
- 21203B0064 Manisha Bomble

Brief idea of Project

The project implements a dynamic defense against evolving phishing tactics by leveraging AI and ML technologies to detect and classify phishing websites. Using supervised learning with the Random Forest Algorithm, the system can automatically identify malicious URLs and enhance online security.

Screenshots of the Project / Photos of Working Model:



Applications: The project enhances web browsers, provides real-time warnings and phishing awareness benefiting various sectors like individuals, businesses, and financial institutions.

Program :Computer Engineering

Project Title : Cursor Movement By Hand Gesture

Domain : Artificial Intelligence

Name of Project Guide : Er. Pradeep Shirke

Name of Students : 21203B0031 – Shlok Mhetre

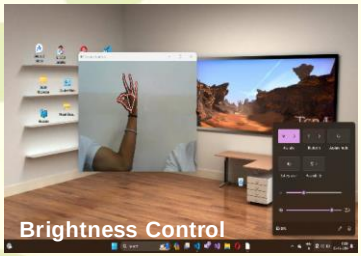
21203B0033 – Rohit Bhuimbar

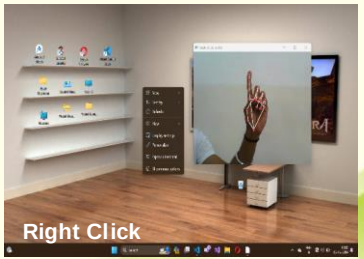
21203B0035 – Ayush Khandagale

Brief idea of Project

Cursor movement by hand gesture involves using gestures or motions of the hand or fingers to control the movement of a cursor on a screen, typically a computer or a mobile device. This technology utilizes sensors, cameras, or other motion-detecting devices to track the movement of the hand or fingers and translate those movements into corresponding actions on the screen. This study presents a method for controlling the cursor's position without the need of any electronic equipment. While actions such as clicking and dragging things will be carried out using various hand gestures.

Screenshots of the Project / Photos of Working Model





Applications:

- The system can be used to control robots and automation systems without the usage of devices.
- 2D and 3D images can be drawn using the AI virtual system using the hand gestures.
- virtual mouse can be used to play virtual reality and augmented reality-based games without the wireless or wired mouse devices.
- In the field of robotics, the proposed system like HCI can be used for controlling robots.

Program :Computer Engineering

Project Title : Outbound calling system

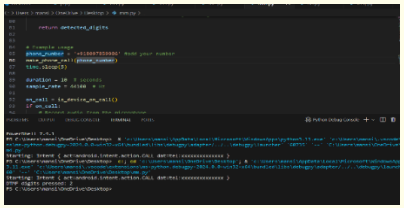
Domain : Artificial Intelligence

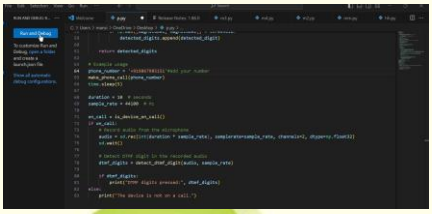
Name of Project Guide : Er.Natasha Brahme

Name of Students : 21203B0003 Mandar Pagare
21203Ba0044 Mansi Gholap
21203B0069 Mashood khan
22203B1006 Rahul Gowda

Brief idea of Project : The purpose of an outbound calling system in the industry is to proactively reach out to customers, clients, or prospects to achieve specific business objectives. It serves as a powerful tool for sales and marketing, enabling companies to conduct targeted outreach, generate leads, and nurture customer relationships. Additionally, outbound calling systems play a crucial role in conducting surveys, collecting feedback, and disseminating important information.

Screenshots of the Project / Photos of Working Model (Min.3):





Applications:

- Telemarketing and Sales
- Customer Feedback
- Surveys and Market Research

Program :Computer Engineering

Project Title : Subtitle Generator and Dubbing

Domain : Artificial Intelligence

Name of Project Guide : Er. Pradeep Shirke

Name of Students : 21203B0021 - Pradnya Katkar

21203B0032 - Sejal Yadav

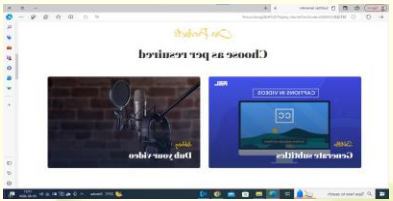
21203B0061 - Heeba Naaz shaikh

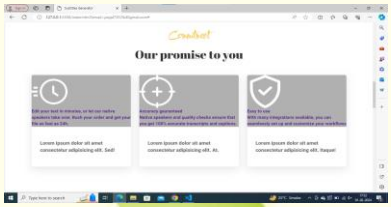
22203B1005 - Tanaya Beloshe

Brief idea of Project:-

The project, titled "Subtitle generation and Dubbing"is designed to facilitate the creation of accessible and multilingual video content. By automating the process of adding precise subtitles and translations to video materials, this project empowers content creators to broaden their viewership, enhance user experience, and provide inclusive content to a global audience. This project combines speech recognition and video editing techniques to streamline a traditionally labor-intensive process. The initial focus is on commonly spoken languages, with the potential for future expansion.

Screenshots of the Project / Photos of Working Model (Min.3):





Applications:

Education, Entertainment, Online Learning, Accessibility, Content Localization

Program :Computer Engineering

Project Title: Sign Language Detection

Domain: Artificial Intelligence

Name of Project Guide : Er. Suyog Satawalekar

Name of Students:

21203C0012 Ashok Bhati

21203C0036 Aqeeb Pathan

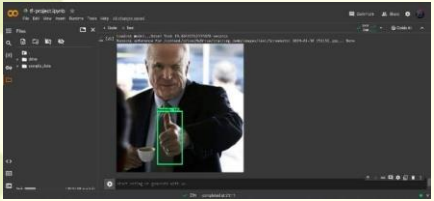
21203C0037 Jay Pethad

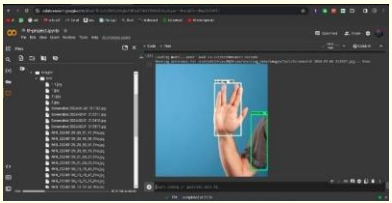
21203C0048 Afan Khan

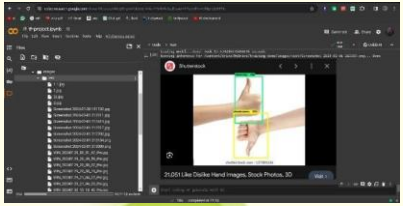
Brief idea of Project:

The Sign Language Detection project employs advanced computer vision to recognize sign language gestures in real-time, providing immediate and accurate translations. With an intuitive interface and continuous learning, it enhances communication accessibility for individuals with hearing impairments on various platforms.

Screenshots of the Project / Photos of Working Model (:







Applications:

Sign Language Detection system: Improves communication for hearing-impaired individuals in education, work, and emergencies. Also aids healthcare and enables inclusive, multilingual interactions in smart homes and remote settings.

Program :Computer Engineering

Project Title : Develop Grocery store application

Domain : Mobile Application

Name of Project Guide : **Er.**Manisha Pokharkar

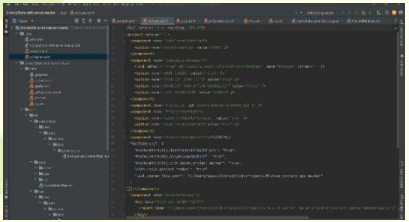
Name of Students

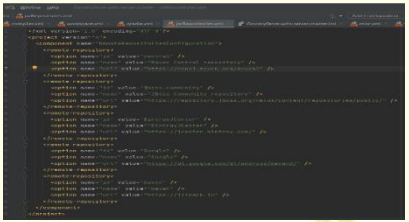
:	21203A0062	Harshraj Mandhare
	22203A1002	Rohan Nagargoji
	22203A1006	Mayank Sontake
	22203A1007	Ranjit Kakade

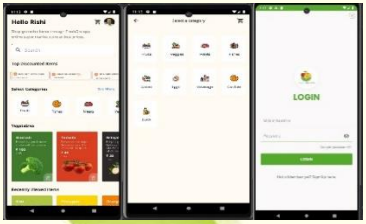
Brief idea of Project

Our online grocery app is the perfect solution for busy people who don't have time to go to the grocery store. We offer a wide selection of groceries, including fresh produce, meat, seafood, dairy, and baked goods. We also offer a variety of specialty items, such as organic and gluten-free foods.

Screenshots of the Project / Photos of Working Model :







Applications:

- Technical Proficiency
- User-Centric Approach
- Data Security and Privacy
- Customization
- Delivery Optimization

Program :Computer Engineering

Project Title : Smart HealthCare Mobile Application

Domain : Mobile Application

Name of Project Guide :Er. Supriya Angne

Name of Students : 21203A0017 Aryan Karandikar

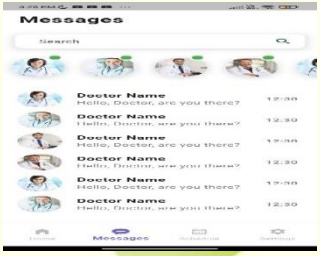
21203A0040 Atharv Kokane

21203A0045 Sahil Narkar

21203A0051 Swayam Hulwan

Brief idea of Project:- Our Smart Healthcare Mobile Application is a cutting-edge platform that connects healthcare providers and patients, offering a user-friendly interface and a robust set of features. It facilitates secure online consultations, appointment scheduling, and efficient health record management for doctors, while empowering patients with convenient access to medical services, quick emergency assistance, and a wealth of health information. Utilizing Flutter for frontend development, Node.js for backend functionality, and MySQL for data management, the application is poised to transform healthcare accessibility and efficiency.

Screenshots of the Project / Photos of Working Model:



Applications: Appointment scheduling for doctor and patient

Program :Computer Engineering

Project Title :POTHOLE TRACKING SYSTEM

Domain :Mobile Application

Name of Project Guide : Er.Sangeeta Shirasat

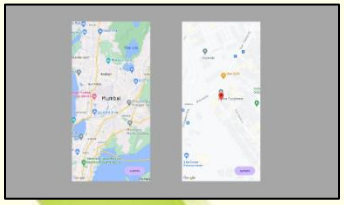
Name of Students : 21203A0024 Geetika Mahour

21203A0033 Rashi Doiphode

Brief idea of Project

This project aims to create a dynamic pothole database integrated with mapping platforms to improve road safety during flood events. Users can upload and update real-time information about potholes, helping drivers navigate flood-affected roads safely. By leveraging crowdsourced data, this solution enhances the driving experience during adverse weather conditions, enabling individuals to make informed decisions and travel securely on flooded roadways.

Screenshots of the Project / Photos of Working Model :



Applications: Safety Enhancement, Road Maintenance, Navigation Improvement ,Community Engagement.

Program :Computer Engineering

Project Title : IGNITE Fitness

Domain : Mobile Application

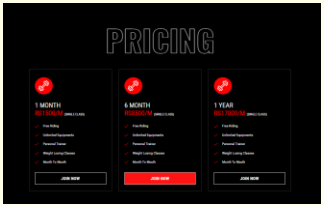
Name of Project Guide : Er.Prasad Koyande

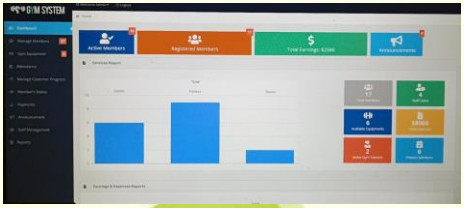
Name of Students : 21203A0009 – Yash Kadam
21203A0026 – Atharva Achare
21203A0049 – Samarth Shete
21203A0052 – Devraj Gangthade

Brief idea of Project : IGNITE Fitness is an innovative website designed to revolutionize the way people approach fitness and health. It serves as a comprehensive online hub for gym-goers, providing them with tools, resources, and community support to maximize their workout experience and achieve their fitness goals

Some of the features that can be included on a fitness website :-

Screenshots of the Project / Photos of Working Model :





Applications

- Information about Ignite Fitness programs and courses
- Online registration.
- Admin Panel
- Photo and video galleries of Gym and activities

Program :Computer Engineering

Project Title : E-Mitra

Domain : Mobile Application

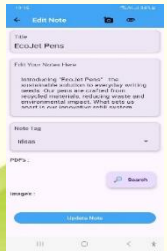
Name of Project Guide : Er. Vaishali Malkar

Name of Students : 21203B0006 – Arin N.Govekar
21203B0042 – Mihir D. Chavan
21203B0053 – Chinmay S. Nagap
21203B0060 – Yashovardhan L. Redekar

Brief idea of Project :

"EMITRA" aims to become the ultimate companion for individuals seeking efficient and intelligent ways to organize their thoughts, tasks, and information in today's fast-paced world. With a focus on simplicity, efficiency, and user experience, E-mitra redefines the way users capture, store, and manage their information on-the-go. Designed to seamlessly integrate the convenience of a traditional notepad into the E-Mitra system, enhancing the way users capture and manage their thoughts and tasks.

Screenshots of the Project / Photos of Working Model :



Applications:

Ideal for students to take class notes, organize study materials, and set reminders for notes, enhancing their academic performance. Perfect for professionals to jot down meeting notes, manage tasks, and set reminders for deadlines, ensuring efficient work organization.

Program : Computer Engineering

Project Title : Just Bargain

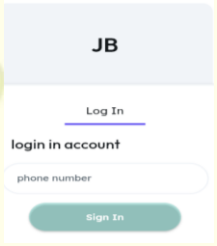
Domain : Mobile Application

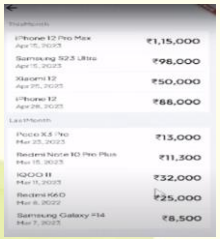
Name of Project Guide : Er. Prasad Koyande

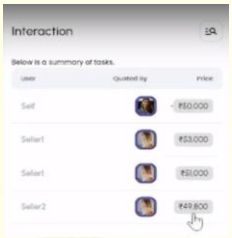
Name of Students : 21203B0043 - Arryaan Jain
21203A0010 - Burhanuddin Pardawala
21203B0046 - Jidnesh Chavan
21203B0066 - Rucha Suryawanshi

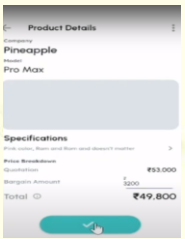
Brief idea of Project The Just Bargain platform offers a user-friendly interface for both buyers and sellers. Buyers can easily post their smartphone requirements, including their preferred price quote, on the app. This listing becomes visible to sellers in the vicinity, creating an immediate opportunity for potential matches. Sellers, in turn, can view these listings and submit their initial bids, ensuring a competitive and dynamic marketplace. A distinctive feature of Just Bargain is the option for buyers to initiate an auction if they are not satisfied with the initial bids received. In this auction, multiple sellers can participate by submitting competitive quotes, and the lowest bid emerges as the leader. This auction-style system empowers buyers to secure the best possible deal for their desired smartphone.

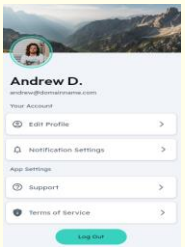
Screenshots of the Project / Photos of Working Model :











Applications: Buyer-Centric Approach, Reverse Auction Functionality, Bargaining Power Restoration

Competitions: Appeared for CiiA 2024, Google </Code> With Maps 2024

Program :Computer Engineering

Project Title : Vehicle Tracking Application

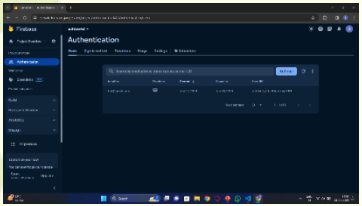
Domain : Mobile Application

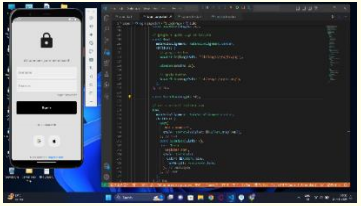
Name of Project Guide : Er.Prasad Koyande

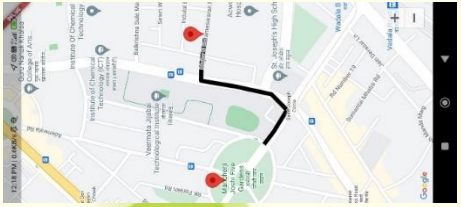
Name of Students : 21203B0052 Sai Jadhav
21203B0054 Dhruv Mahulkar
21203B0056 Sudhanshu Nijap
21203B0062 Sarvesh Mane

Brief idea of Project : The main objective of the Vehicle Tracking Application is to provide features such as user-friendly map interface, allowing them to effortlessly visualize their vehicle's sourcae and destination in real-time. The Vehicle Tracking Application Provides Real-Time Tracking, User Friendly MAP Interface to easily navigate from Source to Destination.

Screenshots of the Project / Photos of Working Model :







Applications:

1) Personal Vehicles can use this Vehicle Tracking Application.

2) Construction and Field Vehicles can track vehicles using this app for transportation purposes.

Program :Computer Engineering

Project Title : The app-based solution to identify and solve diseases in plants/crop

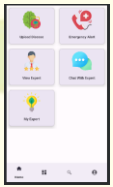
Domain :Mobile Application

Name of Project Guide : Er. Poonam Pawar

Name of Students : 21203B0029 – Rupesh Wankhade
21203B0041 – Aniruddha Sargar
21203B0065 – Ankur Godase
22203B1004 – Ajit Mahale

Brief idea of Project The proposed project aims to revolutionize plant disease identification and management through an innovative mobile app. Leveraging image recognition the app will provide real-time diagnoses of plant diseases from user-submitted photographs. It will also offer guidance on disease management and prevention, with features such as community collaboration and educational resources. Key features include multi-crop support, data privacy, offline functionality, and integration with weather data. Ultimately, the project seeks to reduce crop losses, enhance agricultural sustainability, and improve food security.

Screenshots of the Project / Photos of Working Model:



Applications:

- Crop Disease Identification and Management
- Farmer's Field
- Agricultural Extension Services

Program :Computer Engineering

Project Title : RoadRescue-Vehicle Breakdown Assistance

Domain : Mobile Application

Name of Project Guide : Er. Suyog Satawalekar.

Name of Students : 21203B0001 - Tejas Katkar.
21203B0016 - Aryan Naik.
21203B0026 - Pournimaa Karande.
21203B0045 - Madhav Pachakale.

Brief idea of Project: "Road Rescue: Vehicle Breakdown Assistance" is a GPS-enabled mobile app that revolutionizes roadside assistance. Combining advanced technology, including GPS, with a skilled professional team, the app ensures prompt response to breakdowns, access to service stations, and comprehensive support for various roadside predicaments. It aims to redefine the roadside assistance experience, offering drivers a reliable and efficient solution to unexpected breakdowns and ensuring they are never left stranded or helpless.

Screenshots of the Project:

Applications:
Individual Vehicle Owners
Fleet Management Services
Garage Owners

Program :Computer Engineering

Project Title : Wrong parking notification system using QR code.

Domain : Mobile application

Name of Project Guide : Er. Supriya Angne

: 21203C0041- Aarya Deshmukh

21203C0042- Bhumika More

21203C0069 -Krishang Naik

22203C1004 - Armaan Khan

Brief idea of Project

The purpose of a social use of wrong parking system notification with QR code could be to efficiently inform and educate individuals about parking violations in a community or public space.

Screenshots of the Project / Photos of Working Model):

Applications: Useful in closed environments like colleges, societies, etc where parking is allotted for individuals

Program :Computer Engineering

Project Title : Digitalization of government asset

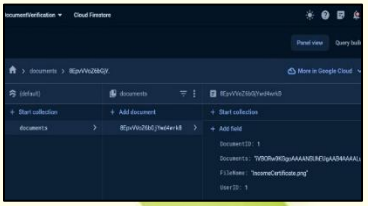
Domain : Mobile Application

Name of Project Guide : Er.Anjali Gharat

Name of Students : 21203C0005-Aditi Mahadik.
21203C0016 -Sharavani Kshirsagar.
22203C1001- Hitesh Rane.
22203C1008- Nirjara Padaye.

Brief idea of Project : The Government Documents Mobile Application is a transformative digital platform designed to enhance public access to essential government information and services. This mobile app serves as a centralized hub for citizens, offering streamlined access to a wide array of government documents, reports, and services. Users can effortlessly search, access, and download documents, fostering transparency, efficiency, and engagement in the government-citizen relationship. The application empowers users with tools for real-time updates, notifications, and personalized content delivery, ensuring citizens stay informed and connected with their government. Additionally, robust security measures are implemented to safeguard sensitive information.

Screenshots of the Project / Photos of Working Model:



Applications:

- Royal Enterprises app provide for a thorough integration of majority if the Government Services like Adhaar card services, Passport services, Domicile, Non-creamy layer and other like certificates etc.
- This app provide unlimited access to the customer at any time and from anywhere.

Program :Computer Engineering

Project Title : Jewellery and Cosmetic Shop Application

Domain : Mobile Application

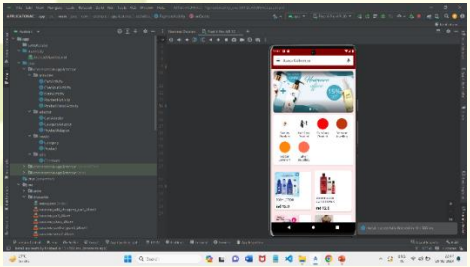
Name of Project Guide : Er.Manisha Pokharkar

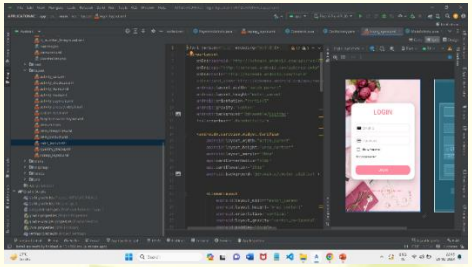
Name of Students : 21203B0007- Dipshree Bhamble
21203B0037- Anisha Ghole
21203B0039- Nimish Utekar
21203B0040 - Samyak Pagare

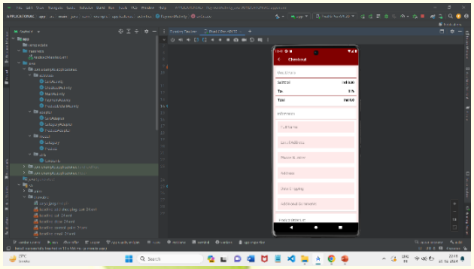
Brief idea of Project

Developed a mobile application that serves as a one-stop platform for both jewelry and cosmetics Users can browse and purchase a wide range of jewelry pieces, including necklaces, earrings, bracelets, etc. 360° feature enhances user engagement, encourages repeat purchases and favour customer loyalty by providing a curated shopping experience.

Screenshots of the Project / Photos of Working Model :







Applications: It is Useful for shopkeeper owner and user, Time complexity.

Program :Computer Engineering

Project Title : Combat Management Training System

Domain : Web Application

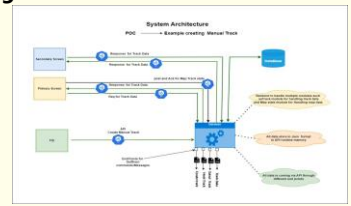
Name of Project Guide : Er. Manisha Pokharkar

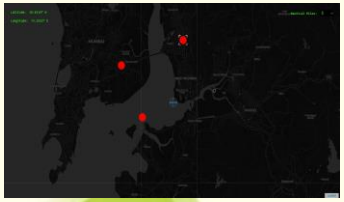
Name of Students : 18203A0048 Durgesh Khade
21203A0002 Atharv Mirgal
21203A0013 Bhumika Vaishay
21203A0021 Bhagyesh Chaudhari

Brief idea of Project

The CMS Training System (CTS-71) is a crucial platform for naval officer training, providing real-time visualization of scenario-based data for enhanced situational awareness. It facilitates efficient monitoring and management of vessels, aircraft, and other objects, empowering the navy with timely insights for tactical decision-making and optimizing resource allocation during maritime operations.

Screenshots of the Project / Photos of Working Model:





Applications: Interactive Learning Content, Hands-on Practical Sessions, Progress Tracking, Realistic Scenarios, Performance Evaluation, Learning Analytics

Program :Computer Engineering

Project Title : Dessert Delivery Web Application

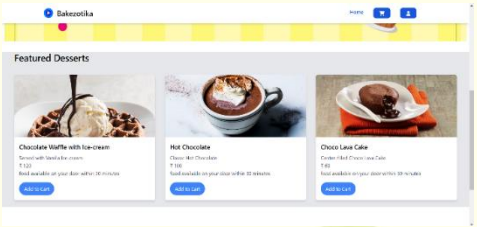
Domain : Web Application

Name of Project Guide : Er. Anjali Gharat

Name of Students : 21203A0028 Raj Parsekar
21203A0036 Shubham Hebbalkar
21203A0037 Ganesh Karande

Brief idea of Project : Our dessert delivery website allows users to browse through a selection of delicious treats, add items to their cart, and securely pay online through integrated payment gateways. Users can easily enter their delivery details during checkout. The website offers a seamless experience for indulging in sweet cravings from the comfort of home.

Screenshots of the Project / Photos of Working Model :



Applications: Birthday Parties, Functions, Office ceremonies, Sweet cravings, Gifting options etc..

Program : Computer Engineering

Project Title : MultiSector Website

Domain : Web Application

Name of Project Guide : Er. Sangeeta Shirsat

Name of Students : 21203A0031 -Sayam Gada
21203A0047 -Unnati Buddhiwant
21203A0048 - Anvita Keer

Brief idea of Project:

Multisector websites typically refers to websites that cover multiple industries, sectors or topics. Instead of focusing on a single niche or subject area, multisector websites may offer content, products, or services related to various fields or industries. Instead of focusing on a single niche or subject area, multisector websites may offer content, products, or services related to various fields or industries.

Screenshots of the Project / Photos of Working Model :

Applications:

Marketplace Platform
Information portal
Networking Platform
Consultancy

Program :Computer Engineering

Project Title : E-FYPQA

Domain : Web Application

Name of Project Guide : Er. Sudhir Lawand

Name of Students : 21203A0008 Riya Mehetar

21203A0044 Sathvika Adep

21203A0067 Shravani Mangela

Brief idea of Project: The application aim to develop an E-FYPQA. This application will help FYPQA committee in student's final year project management. This application aims to build a single platform for E-FYPQA committee to have ease of project development work between students and guides. It will help students to interact with guides and digitalize their documents.

Screenshots of the Project / Photos of Working Model :

Applications:

- Single platform for guides to track final year project .
- Centralized storage of project templates.
- File sharing for project drafts and feedback.
- Reliable and Hassle free solution for FYPQA Committee.

Program :Computer Engineering

Project Title : Website for Mumbai GST department

Domain :Web Application

Name of Project Guide : Er. Prasad Koyande

Name of Students : 21203A0022 Shreesh Nalawade
21203A0039 Krupa Gurav
21203A0041 Chirag Sharma
21203A0043 Ashmeet Bhat Vernekar

Brief idea of Project: The project is a user-friendly website for the organization to showcase and manage events. It offers easy event discovery with detailed descriptions. Organizers can create, edit, and promote events. The website is responsive, mobile-friendly, secure, and adaptable for a range of organizations, aiming to enhance event promotion, management, and community engagement.

Screenshots of the Project / Photos of Working Model :

Applications:

- Increase event discovery and engagement: Showcase the platform's ability to attract attendees and boost participation.
- Sharing agendas and venue details for meetings, workshops, or team-building events.
- Hosting information about speakers, schedules, and registration for attendees..
- Promoting local gatherings, fundraisers, and social activities to engage with the community.

Program :Computer Engineering

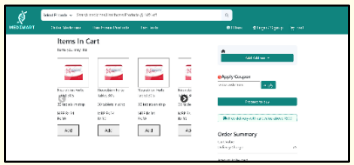
Project Title : E-Commerce Website for HealthCare Products.
Domain : Web Application

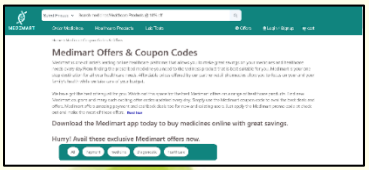
Name of Project Guide : Er.Supriya Kadam

Name of Student : 22203A1001 – Omkar Gilbile
22203A1003 – Pranav Kumbhar
22203A1004 – Harsh Kamble
22203A1008 – Atharva Bhalerao

Brief idea of Project : We will be creating a website for OrgGen Technologies, basically it is an e-commerce website which displays the healthcare products. It provides clear and detailed pictures for each product. This website also contain advance features like Informational Content, Payment modes ,Customized User Dashboards. These features make the website more advance and user friendly.

Screenshots of the Project / Photos of Working Model:





Applications: For Selling health care products

Program :Computer Engineering

Project Title: Website and WebApp for Vidyaniketan International Academy Sakori, Pune

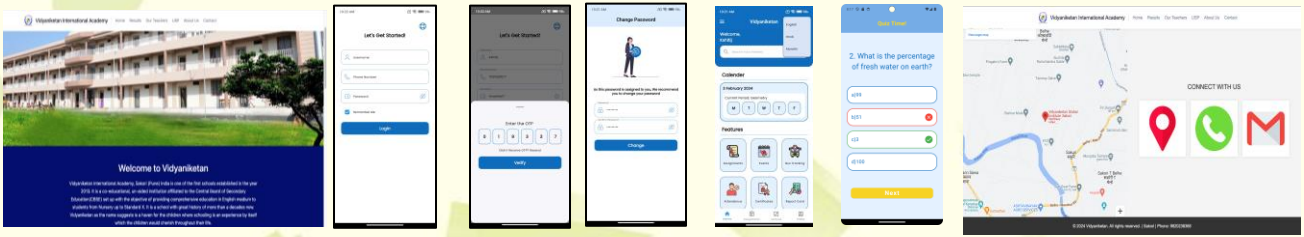
Domain: Web Application

Name of Project Guide : Er.Vijay Patil

Name of Students : 21203A0055 – Anushka Santosh Unde
21203A0057 – Diksha Sunil Jadhav
21203A0058 – Jidnya Santosh Jadhav
21203A0060 – Kshitij Gaurav Desai

Brief idea of Project: The project is an innovative and comprehensive educational administration solution meticulously designed to address the multifaceted needs of Vidyaniketan International Academy, a distinguished educational institution nestled in the vibrant city of Pune, India. This project is an answer to the growing challenges faced by the academy in terms of operational efficiency, transparency, and educational excellence. It seeks to revolutionize the way the institution manages its academic, administrative, and empowering the institution to stay at the forefront of delivering a world-class education to its students. With a deep understanding of the unique requirements of Vidyaniketan International Academy, this management system promises to provide a holistic solution to the diverse demands of the institution.

Screenshots of the Project / Photos of Working Model:



Applications: For School Management in VIDYANIKETAN INTERNATIONAL ACADAMY

Program :Computer Engineering

Project Title : E-internship

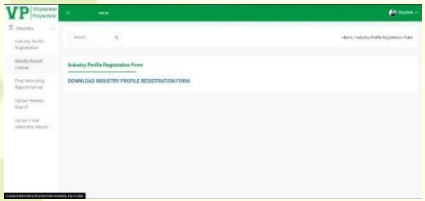
Domain : Web Application

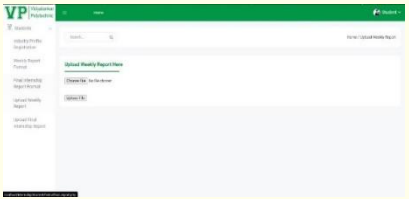
Name of Project Guide : Er.Sudhir Lawand

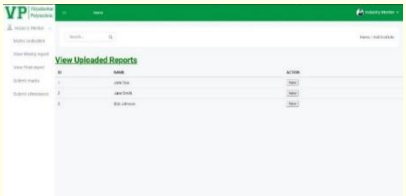
Name of Students : 21203A0019 Vedashree Kondvilkar
21203A0029 Yash Pawar
21203A0032 Nisarga Jadale
21203A0042 Aaditi Bhatade

Brief idea of Project : The development of e-internship application promises to solve most the problems which faculty mentors and students face during their six weeks of internship. With its comprehensive set of features user friendly interface will help the students to improve their internship experiences.

Screenshots of the Project / Photos of Working Model:







Applications:

- It will help institutes to track and assess students performance during six weeks of internship.
- Single platform to monitor students internship work.
- Reliable and Hassle free solution for internship.

Program :Computer Engineering

Project Title : Examination result analysis system

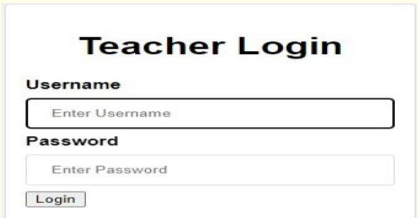
Domain : Web Application

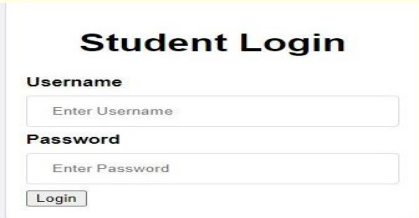
Name of Project Guide : Er. Supriya Angne

Name of Students : 21203B0017 - Pranav Walunj
21203B0036 Shweta Mungekar
21203B0038- Shreya Katyare
21203B0067- Swara Tattu

Brief idea of Project : In today's scenario colleges needs to analyze student results manually which takes lots of time and effort by faculties working on it. Hence to simplify this tasks a web-based system is introduced which can perform student result analysis. The system takes file of student results obtained by universities in excel sheet format as an input. The result of analysis will then be displayed in sorted manner according to rank of student. This system. runs on web browser on computer with well connected network.

Screenshots of the Project / Photos of Working Model :





Applications:
1.Student Performance Monitoring
2.Tracking Longitudinal Progress

Program : Computer Engineering

Project Title : HOPE

Domain : Web Application

Name of Project Guide Er. Sneha Patange

Name of Students : 21203B0004 - Mirav Jadav

21203B008 - Hammad Ansari

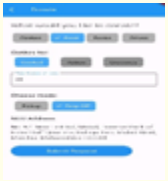
21203B0047 - Talha Siddiqui

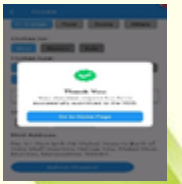
21203B0049 - Amruta Dixit

Brief idea of Project:

The Development of a donation/relief Mobile Application is to provide a user-friendly platform to individual/users to contribute to different community supporting organizations. It allows direct contact of individual and organizations, provides time flexibility for both individual (user) and organization, the individual can choose how to contribute financially or with essential relief. This is way better than the traditional way of supporting these organizations. This will benefit various people and organizations as it makes the good deed happen at your fingertips wherever and whenever.

Screenshots of the Project / Photos of Working Model :





Applications :

The application facilitates donations by connecting users with community supporting organizations, streamlining the process of contributing to these organizations for a more impactful and accessible experience.

Program :Computer Engineering

Project Title : Jewellery Website

Domain : Web Application

Name of Project Guide : Er.Sangeeta Shirsat

Name of Students: 21203B0023- Khushi Lokhande

. 21203B0048- Vivek Gite

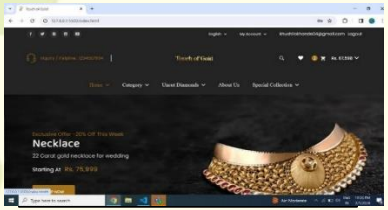
. 21203B0050- Mrunal Shelar

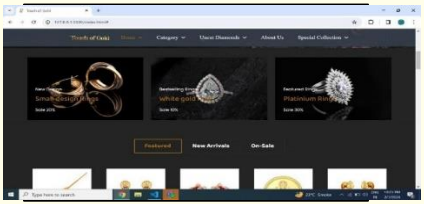
. 21203B0030- Srushti Jagtap

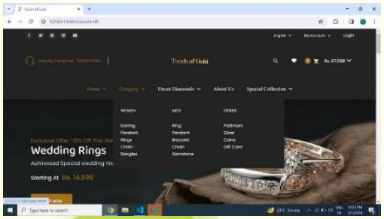
Brief idea of Project

An Online Jewelery website The main goal of this project was to create shopping cart, which allows customers to shop and purchase the Jewelry products online .Moreover , the project is also designed in such a way it lets managers manage the products information. Customers can orders products, and they will be contacted to further process the orders.

Screenshots of the Project / Photos of Working Model :







Applications

and Manufacturers,
Jewellery Retailers,
Online Marketplaces,
Museums and Exhibitions,
Bloggers and Influencers.

Program :Computer Engineering

Project Title : Linda Tours Mumbai(Travel Agency Website)

Domain : Web Application

Name of Project Guide : Er. Pradeep Shirke

Name of Student: 21203B0009- Afshan Khan
21203B0019- Palak Rambhia
21203B0034- Rudra Malvankar

Brief idea of Project:- The project entails crafting a user-friendly website for Linda Tours Mumbai, offering seamless online booking for India exploration packages with various time slots. It includes a secure payment gateway and robust booking management systems. The website will prioritize visual appeal and responsiveness, ensuring compatibility across different web browsers for global accessibility. The ultimate goal is to enhance Linda Tours Mumbai's online presence and elevate the customer booking experience.

Screenshots of the Project / Photos of Working Model:

Applications:

Enhanced customer experience, Efficient operation, Global accessibility, Secure transactions, Business growth

Program :Computer Engineering

Project Title : Karmveer Bhaurao Patil School's Website

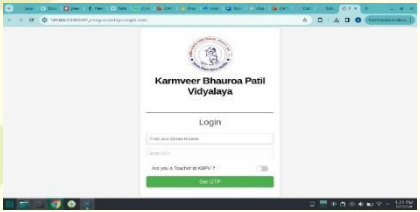
Domain : Web Application

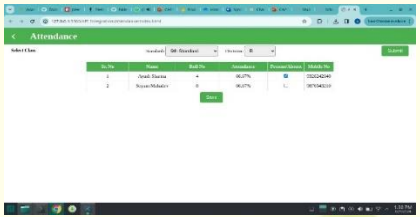
Name of Project Guide : Er.Natasha Brahme

Name of Students : 21203B0002 Yug Chauhan
21203B0046 Ayush Salvi
21203B0068 Soyam Gajagotra
22203B1001 Ayush Sharma

Brief idea of Project : A school website streamlines communication, providing a central hub for students, parents, and educators. It enhances accessibility to academic resources and important updates, fostering a collaborative learning environment. The platform showcases school achievements, events, and activities, promoting community engagement. Parents benefit from summary, a school website contributes to improved communication, accessibility, and community involvement in the educational institution. A convenient tool to track their child's academic progress and stay informed about school affairs.

Screenshots of the Project / Photos of Working Model :





Applications:

- A Bridge between Parents and Teachers
- Marketing

Program :Computer Engineering

Project Title : ERP Billing System

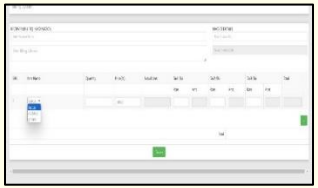
Domain : Web Application

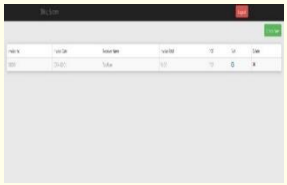
Name of Project Guide : Er.Sneha Patange

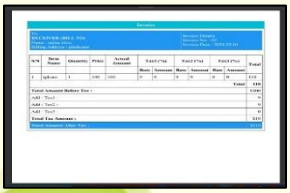
Name of Students : 21203C0002- Swaroop Dhuri
21203C0004-Akshat Gargate
21203C0022 -Deep Vaviya
21203C0030- Sannidhi Shetty

Brief idea of Project : An ERP (Enterprise Resource Planning) billing system is a software solution designed to manage and streamline the billing processes within an organization. It integrates various aspects of billing, invoicing, and financial management into a centralized system, providing a comprehensive platform for managing billing operations.

Screenshots of the Project / Photos of Working Model:







Applications: Enterprise Resource Planning (ERP) billing systems are useful for businesses of all sizes and across various industries for Wholesalers , Distribution, Manufacturing and Retailers.

Program :Computer Engineering

Project Title: Website To App Converter

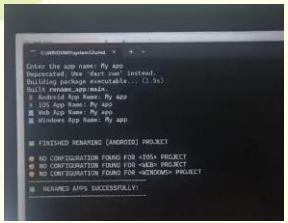
Domain: Web Application

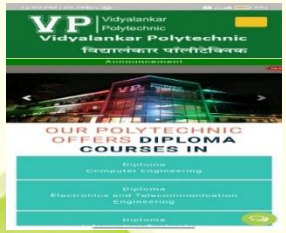
Name of Project Guide : Er. Sudhir Lawand

Name of Students : 21203C0020 Yash Chavan
21203C0039 Laiba Hawaldar
21203C0066 Aditya Malusare
21203C0070 Mrudul Gawade

Brief idea of Project: Converting a website to an app generally refers to the process of adapting or transforming a website into a mobile application. This conversion is often done to provide users with a more native and streamlined experience on their mobile devices, such as smartphones and tablets.

Screenshots of the Project / Photos of Working Model :





Applications:

- Small businesses with limited resources.
- Smaller e-commerce websites.
- Educational websites or online learning platforms etc.

Program :Computer Engineering

Project Title : Vivek Sound N Lights : A Showcase of Our Sound-Based E-Commerce Website

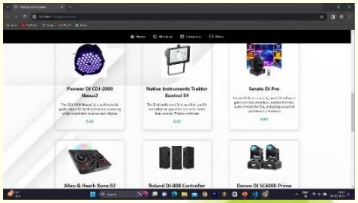
Domain : Web Application

Name of Project Guide : Er. Sangeeta Wankhede

Name of Students : 21203C0003- Suyog Kansare
21203C0008- Arya Patil
21203C0017- Paras Kamble
21203C0054 -Ammar Kazi

Brief idea of Project : Our website serves as a comprehensive platform offering a diverse selection of lights and sound-based products, each distinguished by its unique features and specifications. On the product details page, customers can dlve into comprehensive information encompassing vital aspects like dimensions, weight, power source, and other technical specifications.

Screenshots of the Project / Photos of Working Model :



Applications: 1. Equipment Rentals
2. Event Planning and Management
3. DJ Services Booking
4. Online Payments and Invoicing
5. Inventory Management

Program :Computer Engineering

Project Title : Callwise Pro

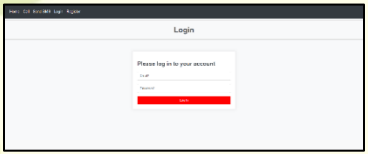
Domain : Web Application

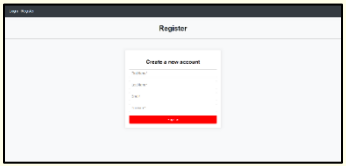
Name of Project Guide : Er.Prasad Koyande

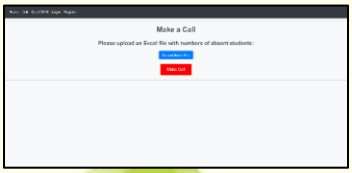
Name of Students : 21203C0057-Rudra Chavan.
21203C0025-Sujal Jadhav.
21203C0071-Affan Ansari.
21203C0053-Bhavik Sonavane.

Brief idea of Project: Project aimed to create a web-based system that allows users to upload Excel files containing phone numbers, automate calls to these numbers, play user-uploaded messages during the calls. This website is also useful to send automated whatsapp messages. It can be used to inform the students parents, that the child has not attended the class today

Screenshots of the Project / Photos of Working Model (Min.3):







Applications:

- Connecting with parents
- Event awareness
- Attendance awareness

Program : Computer Engineering

Project Title : Web based Clinic Management System

Domain : Web Application

Name of Project Guide : Er. Pradeep Shirke

Name of Students : 21203C0018 Srushti Patil

21203C0019 Bhumesh Patil

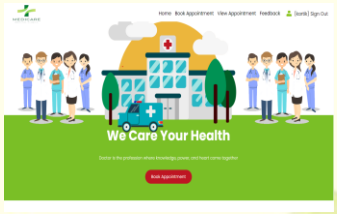
21203C0023 Vedant Patil

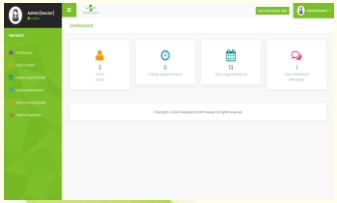
21203C0040 Kartik Yadav

Brief idea of Project

The purpose of the Clinic management system is to maintain the records of the patient including patient medical reports, appointment booking and cancellation, generating prescription, billing and report generation and send an alert to patient about appointments. This project offers an effective solution where user can view various booking slots available select the preferred date and time. The system can maintain patient personal details, consent form generation.

Screenshots of the Project / Photos of Working Model





Applications:

1. Appointment Booking 2. Confirmation Email 3. Reminder Notifications 4. Cancellation 5. Feedback Mechanism 6. Google Maps 7. Emergency Contact Button 8. Records of patient 9. Doctor availability

Program :Computer Engineering

Project Title **:Online Coaching Classes**

Website Domain **: Web development**

Name of Project Guide : Er.Poonam Pawar

Name of Students **:** 21203C0014 – Anjali Salumkhe

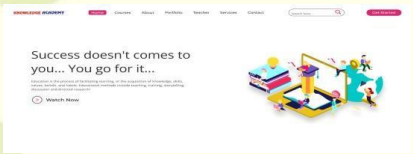
21203C0027 – Aryan Goge

21203C0034 – Pratik Gopale

21203C0038 – Vedant Ghag

Brief idea of Project :- The main aim of the project is to develop an exclusive online coaching classes for students or any other person who want to learn any courses. These online coaching classes provide a flexible and convenient way to learn, allowing individuals to choose their own pace and schedule. Whether it's academic subjects, test preparation, or professional development, these virtual classrooms have become an integral part of modern education. In this introduction, we will delve deeper into the various aspects of online coaching classes, exploring their benefits, challenges, and the impact they have on the way we learn and teach.

Screenshots of the Project / Photos of Working Model.):



Applications:

Resource Library

User Registration and Profiles

Course Listings

Program :Computer Engineering

Project Title : Vidyagiri

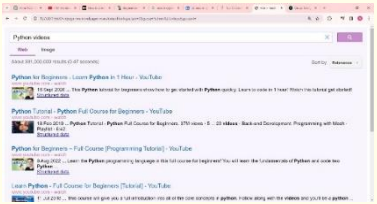
Domain : Web Application

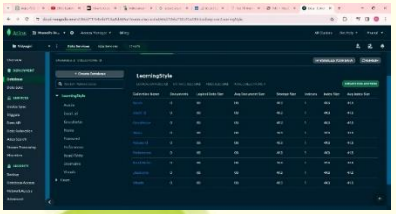
Name of Project Guide : Er.Vaishali Malkar

Name of Students : 21203C0001 Manali Bhuvad
21203C0026 Mrunali Sawant
21203C0035 Rohit Sawant
21203C0062 Vidhikala Nainani

Brief idea of Project: The VARK Learning Style Search Engine offers personalized study resources tailored to users' learning preferences. After completing a VARK assessment, users receive a custom report suggesting study methods aligned with their dominant learning style, be it visual, auditory, reading/writing, or kinesthetic. With just a click, users access a curated search engine populated with relevant resources like videos, podcasts, articles, or hands-on activities, facilitating efficient and engaging learning experiences.

Screenshots of the Project / Photos of Working Model :





Applications: This project helps students learn better by giving them study materials that match how they like to learn, making studying easier and more effective for everyone. It makes sure that no matter how someone likes to learn, they can find resources that work for them.

Program :Computer Engineering

Project Title : Interior Website with AI chatbot

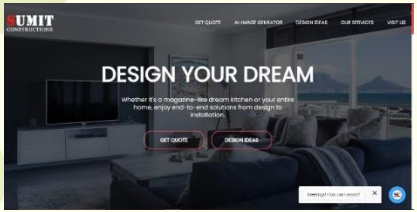
Domain : Web Application

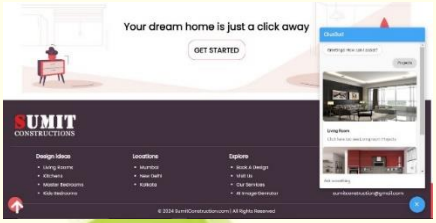
Name of Project Guide : Er. Natasha Brahme

Name of Students : 21203C0050 Atharva Naik
21203C0059 Soham Lohote
21203C0060 Samar Gaikwad
21203C0061 Kundan Dolas

Brief idea of Project : Our final year project combines interior design with AI chatbots to create a website for home aesthetics planning. The AI chatbot guides users through the process, making it easy to revamp bedrooms, kitchens, or living rooms. This website and AI chatbot will help users unleash their inner decorator and explore the world of website-based interior design with a touch of AI magic.

Screenshots of the Project / Photos of Working Model :





Applications: Portfolio Showcase, Services Overview, About Section, Contact Information, Blog or Design Journal, Virtual Tours or 3D Renders, Client Portal, Online Store (Optional), Social Media Integration, Responsive Design, Search Engine Optimization (SEO), Client Testimonials and Reviews

Program :Computer Engineering

Project Title : E-commerce website using php

Domain Web Application

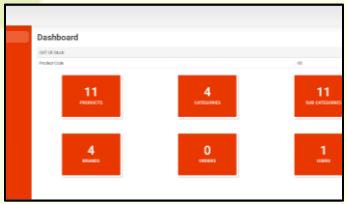
Name of Project Guide : Er. Natasha Brahme

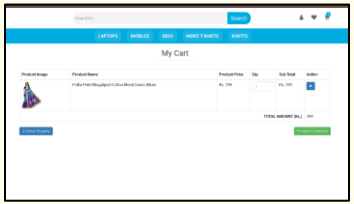
Name of Students : 21203C0031- Om Dhatrak

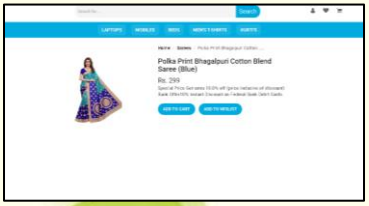
2203C1005- Sujal Chalke

Brief idea of Project: In summary, the "**KickMart**" e-commerce website project endeavors to meet the changing needs of contemporary consumers by providing a fully responsive, user-friendly, and feature-rich online shopping platform. With a responsive design, efficient order processing, real-time customer support, and advanced product management.

Screenshots of the Project / Photos of Working Model:







Applications: Retail and Wholesale, Online Marketing, Manufacturing, Online Booking, Online publishing, Digital Advertising, Finance.

Program :Computer Engineering

Web Application

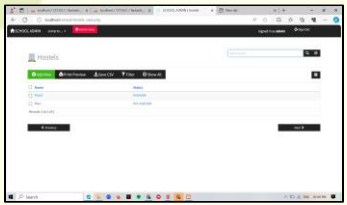
Name of Project Guide : Er.Manisha Pokharkar

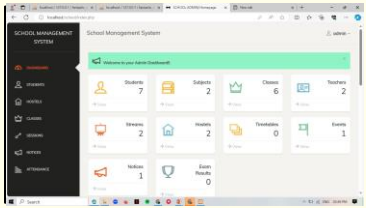
Name of Students : 21203C0072-Rimsha Shaikh
21203C0011-Anam Shaikh
21203C0055-Arham Bukhari

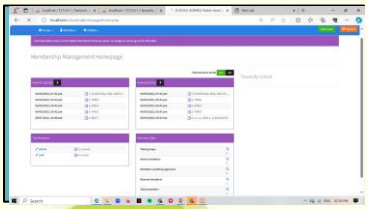
Brief idea of Project

Attendance Sync is an system which is web based, This web-based platform allows users to easily record and manage attendance data in real-time, making it a valuable asset for organizing their data. It allows user to download their One Time Attendance. We have created classes for students and their data is recorded in a graphical manner

Screenshots of the Project / Photos of Working Model :







Applications:
Education Sector(School/Colleges),
Volunteer Organizations,
Government Institutions, Online Learning Platforms.

Program :Computer Engineering

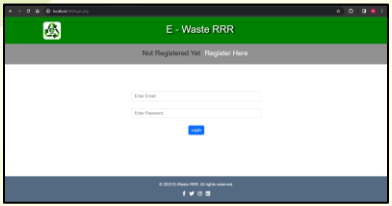
Web Application

Name of Project Guide : Er. Sudhir Lawand

Name of Students : 20203B0055 Mohd. Shujaa Mairaj Narvel
21203B0020 Yash Narendra Rathod
21203B0055 Atharva Vinayak Lamkhade
22203B1008 Shivanand Ramesh Sahani

Brief idea of Project:
Our Web Application E-Waste RRR (Reduce, Reuse, Recycle) is created to increase awareness of E-waste. E-waste application provides single platform to Reduce, Reuse and Recycle e-waste generated in our society.

Screenshots of the Project / Photos of Working Model :



Applications:

- E-Waste RRR Web Application tackles e-waste disposal and it offers a user-friendly solution for individuals.
- E-Waste RRR Web Application is used to increase awareness and learn the best practices for disposing of e-waste.

Program :Computer Engineering

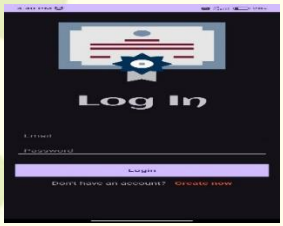
Web Application

Name of Project Guide : Er. Supriya Angne

Name of Students : 21203A0012 – Soham Dharap
21203C0029 – Shubham Saple
22203C1007 – Saurabh Bhoir

Brief idea of Project : This project Introduces Customizable Certificate Generator. This Android app will generate , personalized certificates, Edit pre-designed templates, adding names, dates, and logos with ease. It Infuse certificates with your brand identity and personalize it.

Screenshots of the Project / Photos of Working Model:



Applications: Design custom certificates in seconds on Android application

Program :Computer Engineering

Project Title : ONDC (Open Network for Digital E-Commerce

Domain : Web Application

Name of Project Guide : Er Poonam Pawar

Name of Students : 21203C0046 -Ebrahim Lokhandwala

Brief idea of Project:
Open Network for Digital Commerce (ONDIC) is an emerging initiative that aims to facilitate digital commerce by enabling interoperability between different online platforms, businesses, and customers.

ONDC will be an open platform for all e-commerce activities across the country. It will cover a huge variety of e-commerce segments such as grocery, food delivery, hotel booking, travel bookings, and much more.

ONDC has the capability to change this complete mechanism. It will not be an e-commerce site or platform to sell or buy products. It will act as a network on which different buyers, sellers, and delivery partners will register themselves. A big connection between all these different entities is established. Thus, a cross-connection will be ensured to introduce a more broad and centralized marketplace.

Application:
- Allow e-commerce for population-wide adoption.
- To advocate for an open, inclusive, and competitive marketplace for participation platforms and software applications.
- Creating a digital infrastructure that will allow industry participants to efficiently execute a variety of services.
- Making e-commerce more accessible to small businesses
- Accelerate the adoption of e-commerce by urban and rural customers and businesses.

Program :Computer Engineering

Project Title : Al-Muzna (E Commerce Web Application)

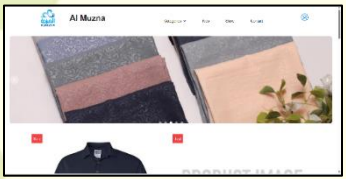
Domain : Web Application Development

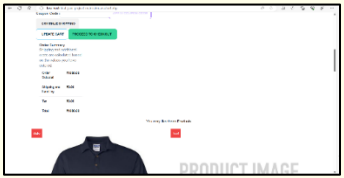
Name of Project Guide : Er.Sudhir Lawand

Name of Students : 21203C0049 Anas Shaikh
21203C0047 Haani Ansari
21203C0063 Khan abdul ahad
21203C0033 Thakur Hassan

Brief idea of Project:
The main idea is to create a well functioning hassle free E-commerce website for our client (Al-Muzna) under the leadership of Visual Labs Technologies. This is customized web application for a store (Al-Muzna)

Screenshots of the Project / Photos of Working Model:





Applications:
- Online Shopping.
- Payment processing.
- Global Reach.
- Order tracking.

Program :Computer Engineering

Project Title: Real time age and gender recognitions application

Domain: Image processing

Name of Project Guide : Er.Vaishali Malkar

Name of Students : 21203A0053 - Vanshika Prashant Chavan

21203A0054 -

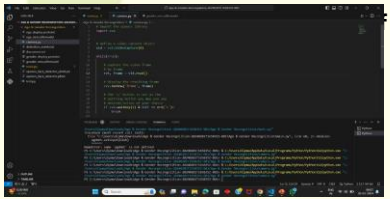
AryanPradip Suroshe

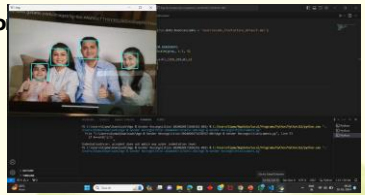
21203A0061 -

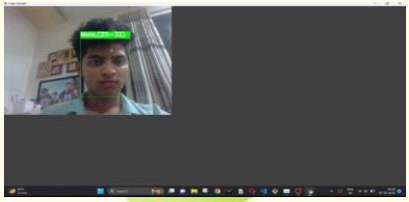
Ninad Sadanand Shelar

Brief idea of Project: A real-time age and gender recognition application utilizes computer vision algorithms to analyze live video feeds or images and accurately estimate the age and gender of individuals in real-time. It typically involves machine learning models trained on large datasets to classify facial features and patterns associated with different age groups and genders. These applications find uses in various fields such as retail analytics, security systems, personalized advertising, and demographic analysis.

Wo







Applications: Event organizers can use this technology to analyze attendee demographics and tailor event experiences accordingly, optimizing attendee engagement and satisfaction.

Program: Computer Engineering

Project Title : DermaFine

Domain : Artificial intelligence, Image Processing and Web Development.

Name of Project Guide : E r. Vijay Patil

Name of Students :

21203B0012	Roma Desai
21203B0057	Preksha Nikam
21203B0063	Ratnesh Maharana
22203B1009	Mohamed Hamza Ansari

Brief idea of Project:

DermaFine is a AI-Based web application that allows a user to pre-emptively detect dermatological conditions. For example, lets say someone had the symptoms of psoriasis, They would then be able to, login to the application.Then scan their affected area using their phone camera. This data will be processed by our AI-Model, created using CNN technology. Then they will be delivered insights of their disease and then will be able to confirm their suspicions with a doctor.

Screenshots of the Project:

Applications:

Telemedicine and Remote Consultations, Skin Cancer Detection, Personalized Skincare, Education and Awareness, Research and Data Collection, Preventative Healthcare, Public Health Campaigns

Program :Computer Engineering

Project Title : V-Agent

Domain : CyberSecurity

Name of Project Guide : Er Sneha Patange

Name of Students : 21203B0010- Dhriti Pandya

21203B0013 - Siddhesh Varhadi

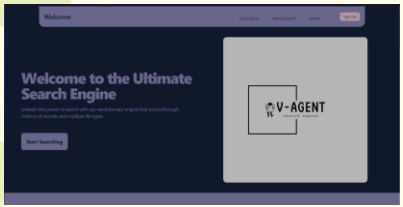
21203B0024 - Alpesh Bhagwatkar

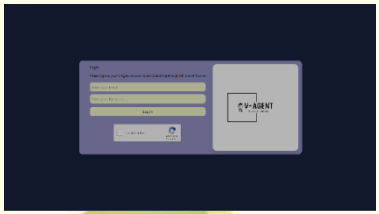
21203B0028 = Aryan Dikshit

Brief idea of Project

The focus of this project is to create a Search engine that is capable of searching through different file types or multiple databases.

Screenshots of the Project / Photos of Working Model :





Applications:

E-commerce Platforms,CMS's,Hostpitals, medicals, Job Portals

Program :Computer Engineering

Project Title : Automation detection of cyberAttacks

Domain : Security

Name of Project Guide : Er.Suyog Satavalekar

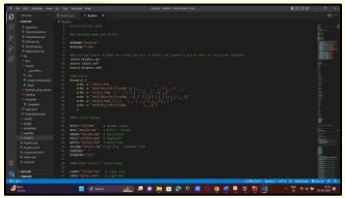
Name of Students : 21203C0021- Mohammed Moin Shaikh

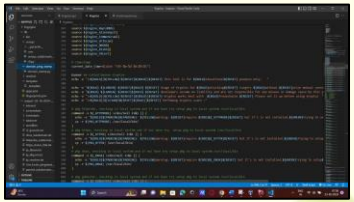
21203C0065- Sayed Mohammed Gufraan

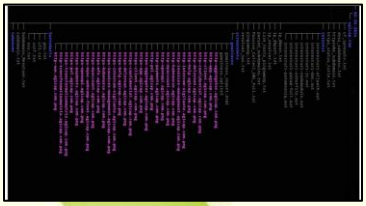
. 21203C1006- Shubham Aghav

Brief idea of Project: we have made a automated tool named crypto what is does is Kryptos integrates both passive and active reconnaissance techniques to enhance domain enumeration and analysis capabilities. The passive technique leverages third-party resources such as **DNSdumpster, WebArchive, Shodan, Total Virus, Certsh, BinaryEdge, SecurityTrails, Certspotter, Censys, Threatminer, Bufferover, Hackertarget, Entrust, ThereatCrowd,** and **Riddler**. This approach optimizes enumeration results by accessing a wide range of external databases and repositories.

Screenshots of the Project / Photos of Working Model :







Applications: *SHODAN,WEBARCHIVE,DNSDUMPSTER,VIRUSTOTAL,THREATCROWD TSPOTTER,CERTSH,BINARYEDGE,HACKERTARGET, and many more applications is used in this tool known as Kryptos.*

Program :Computer Engineering

Project Title : Smart Door Lock With Attendance System

Domain : Security

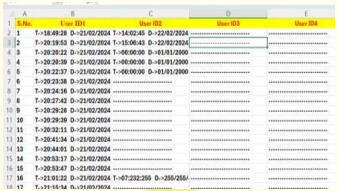
Name of Project Guide **:** Er. Suyog Satawalekar

Name of Students : 21203C0015 –Atharva Yadav

21203C0028 –Prasad Gondhali

Brief idea of Project : Smart door locking with attendance systems are innovative solutions designed to enhance security and streamline attendance tracking in various settings such as Homes, offices, hotels, hospitals, and businesses for their convenience, security and accuracy . These system is advanced technology to provide a seamless and efficient way to control access to a space while recording attendance data. A smart door locking system with an integrated attendance system is a modern and efficient solution for access control and attendance monitoring.

Screenshots of the Project / Photos of Working Model:



Applications: Offices ❑ Schools ❑ Hotels ❑ Hospitals ❑ Residential Properties

Final Year Project Committee
Program: Computer Engineering

	**Er. Vijay T. Patil** **(Head, Department of Computer Engineering)**
	**Er. Manisha Pokharkar** **(Project Coordinator, Department of Computer Engineering)**

V-Ideas

Program
Information Technology

Program: Information Technology

Vision

To become a leading center in the domain of Information Technology where learners are introduced to the concepts and implementation of technologies.

Mission

- Encouraging academic excellence and a passion for learning through the use of learner-oriented teaching methodologies.
- Providing an environment that inculcates ethics and effective soft-skills and focuses on the development of learners.
- Establishing and reinforcing a symbiotic institute-industry interface so that learners can gain exposure to real-life applications of Information Technology.

Program Educational Objectives

- **PEO 1:** Provide socially responsible, environment friendly solutions to Information technology related broad-based problems adapting professional ethics.
- **PEO 2:** Adapt state-of-the-art Information Technology broad-based techniques to work in multi-disciplinary work environments.
- **PEO 3:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program Outcomes

PO1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2. **Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.

PO3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4. **Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

Program Outcomes

PO5. **Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7. **Life-long learning:** Ability to analyze individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes

PSO 1. Modern Information Technology:

Use latest technologies for operation and application of information.

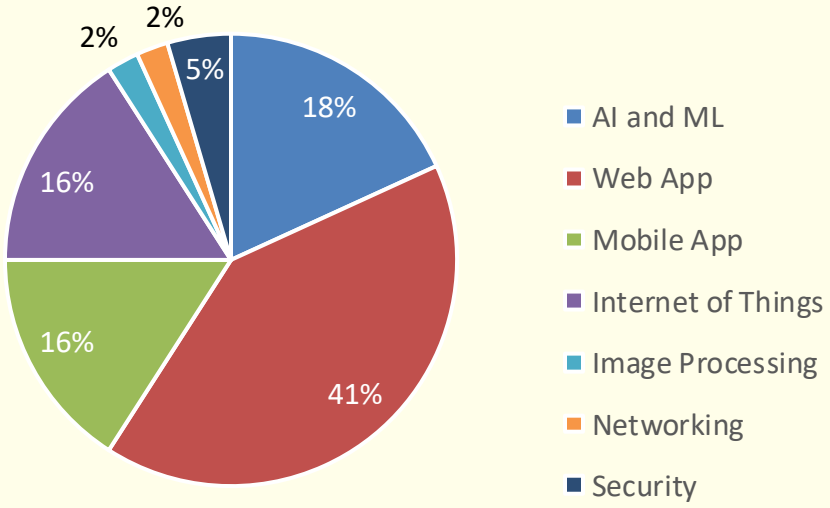
PSO 2. Information Technology Process:

Maintain the information processes using modern information and communication technologies.

Analysis of Capstone Project (2023-2024)

Domain Wise Project Distribution

AI & ML	Web Application	Mobile Application	IoT	Image Processing	Networking	Security
8	18	07	07	01	01	02
44						



Program: Information Technology

Program: Information Technology

Program: Information Technology

Program: Information Technology

Program : Information Technology

Project Title : SensAI

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Yogita Khandagale

Name of Students : 21202C0025 - Manav Chudasama

21202C0031 - Al-Libaan Kazi

21202B0032 - Omkar Jadhav

Brief idea of project :

SensAI is an innovative project inspired by sixth sense technology, aimed at revolutionizing human-computer interaction. It utilizes AI, image processing, and augmented reality to create a smartphone application that enhances accessibility and interactivity. With real-time object recognition and gesture detection, SensAI empowers users, particularly the visually impaired, to navigate their surroundings more independently. The integration of an external projector extends its capabilities, fostering interactive collaborative workspaces and immersive storytelling experiences.

Screenshots of the Project :

Applications :

- Real-time Object Identification for Visually Impaired.
- Interactive Collaborative Workspaces, Immersive Storytelling and Presentations

Award:- Winner of M.S.B.T.E State Level Technical Research Paper Presentation 2024

Program : Information Technology

Project Title : NexGen Library (Industry Project)

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Samidha Chavan

Name of Students : 21202C0034 - Umer Khatri

21202C0036 - Aamir Hamza Kazi

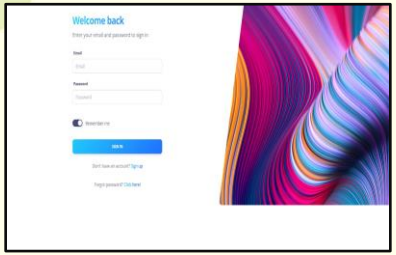
21202C0001 - Hassan Qureshi

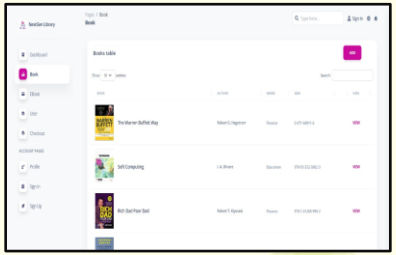
21202C0017 - Mohd Jarir Khan

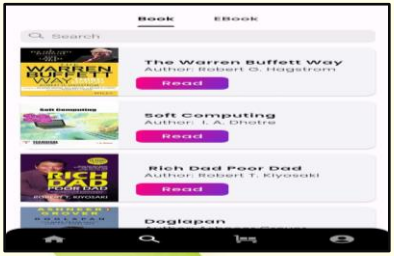
Brief idea of project :

NextGen Library is an innovative digital platform aimed at modernizing traditional library systems. By integrating NFC technology and AI algorithms, it transforms library management by providing efficient book tracking, real-time user interactions and its standout feature is the AI Chabot, which offers instant responses with reference to user inquiries within the scope of the E-Book

Screenshots of the Project :







Applications :

- Online Library with AI Chat Bot.
- Automated Library with Mobile App accessibility.

Award:- Paper Presented at MSBTE State Level Technical paper presentation and Published paper on "NexGen Library using AI and NFC"

Program : Information Technology

Project Title : ProctoHack

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Shonal Vaz

Name of Students : 21202A0045 - Shruti Karunakar Rapolu

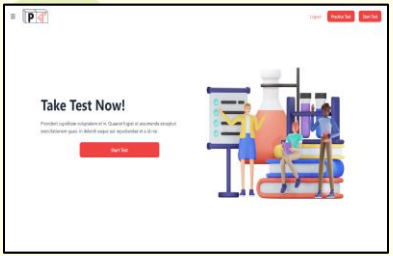
21202A0046 - Shreyas Vinayak Kumbhar

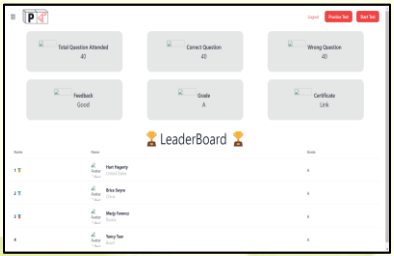
21202A0047 - Ayush Ghanshyam Yadav

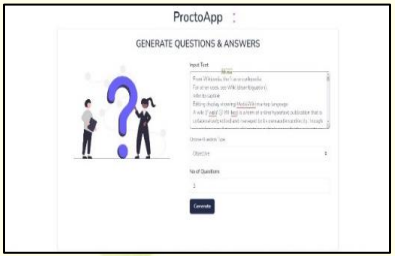
Brief idea of project :

ProctoHack is a pioneering application dedicated to empowering individuals in their pursuit of programming excellence. This platform offers a secure and efficient environment for assessing programming skills, with real-time monitoring ensuring the integrity of exams. Users can access a comprehensive library of mock tests to practice and refine their abilities. The application leverages AI-driven analysis to provide swift and accurate performance feedback, allowing users to track their progress and identify areas for improvement.

Screenshots of the Project :







Applications :

- Hackathon Organizers.
- Event Promotion.
- Talent Acquisition

Program : Information Technology

Project Title : AI Dieticians Website

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Trupti Dudhat

Name of Students : 21202A0025 - Aaditya Patil

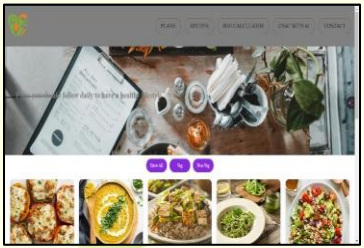
21202A0060 - Tanvi Sawant

21202A0011 - Mansi Chavan

Brief idea of project :

The AI Dietician Chabot is a virtual assistant designed to help users manage their diet and nutrition. It uses artificial intelligence algorithms to provide personalized meal plans, nutritional advice, and support based on the user's dietary goals, preferences, and health conditions. Users can interact with the Chabot to receive recommendations for healthy recipes, track their food intake, get answers to nutrition-related questions, and receive feedback on their eating habits. The Chabot aims to promote healthier eating habits and empower users to make informed decisions about their diet.

Screenshots of the Project :



Applications :

- Nutrition Guidance.
- Weight Management.

Program : Information Technology

Project Title : AirSwipe

Domain : Artificial Intelligence and Machine Learning

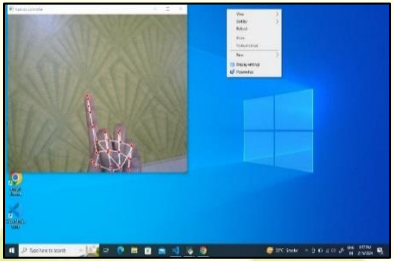
Name of Project Guide : Er. Chetashri Bhusari

Name of Students : 21202B0006 - Priyal Shinkar
21202B0008 - Anjali Mishra
21202B0014 - Vaidehi Manjrekar
21202B0022 - Vaishnavi Sawant

Brief idea of project :

Controlling cursor movement via hand gestures typically involves using a camera or sensor to track hand movements. As you move your hand, the system interprets gestures to move the cursor on the screen. Common gestures like Right Click, Scroll, Drag Drop, Double Click, and many more. This technology is often seen in touchless interfaces provide users with an intuitive and hands-free way to control on-screen elements.

Screenshots of the Project :



Applications :

- Presentations
- Computer Interaction

Program : Information Technology

Project Title : Personalized AI Assistant

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Shonal Vaz

Name of Students : 21202B0011 - Sanika Rane

21202B0046 - Manthan Rondhe

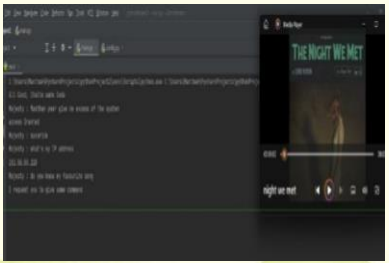
21202B0059 - Aaditi More

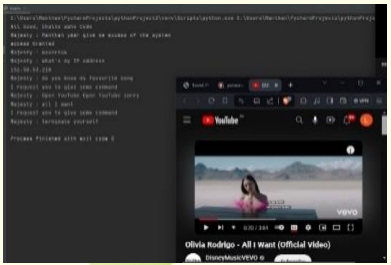
21202B0061 - Anish Bane

Brief idea of project :

A personalized voice AI assistant is a digital companion that uses natural language processing and machine learning techniques to understand and respond to user commands and queries spoken aloud. It responds to voice commands and queries, offering personalized assistance in various tasks such as managing schedules, etc. Ultimately, it's all about making your life easier and more efficient by having an AI companion that truly understands you.

Screenshots of the Project :





Applications :

- Virtual Personal Assistant
- Virtual Customer Service

Program : Information Technology

Project Title : PosePlay-Genki

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Prerana Jalgaonkar

Name of Students : 21202B0015 - Anuj Bhandare

21202B0031 - Yash Shingan

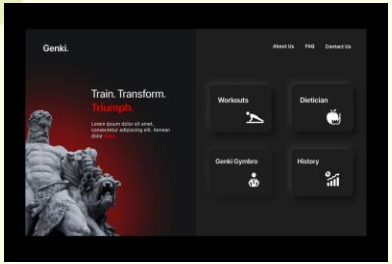
21202B0034 - Sanay Patil

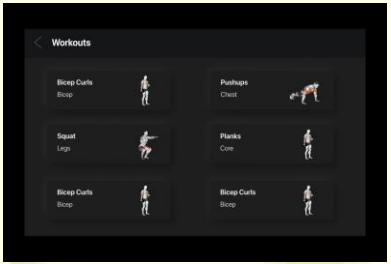
21202B0038 - Yash Shingan

Brief idea of project :

PosePlay-Genki is a comprehensive home workout suite designed to assist individuals who may not have access to the gym or have a busy daily schedule. It features a pose estimation-based spotter, a built-in dietician ,LLM Gymbro Chabot, and more. It makes fitness accessible anytime ,any where at your fingertips.

Screenshots of the Project :





Applications :

- Diet Guidance
- Virtual Workout buddy

Program : Information Technology

Project Title : Live Chat Bot

Domain : Artificial Intelligence and Machine Learning

Name of Project Guide : Er. Ketan Bagade

Name of Students : 21202C0050 - Meet Bagwe

21202C0043 - Yash Chikne

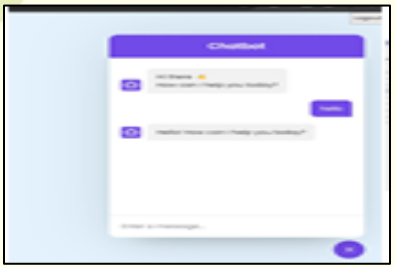
21202C0033 - Ashmit Chavan

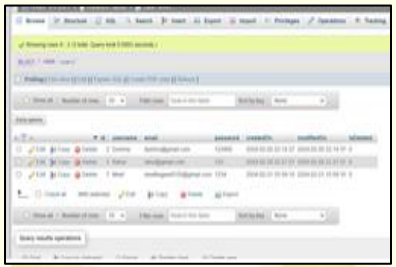
21202C0044 - Rahul Yerunkar

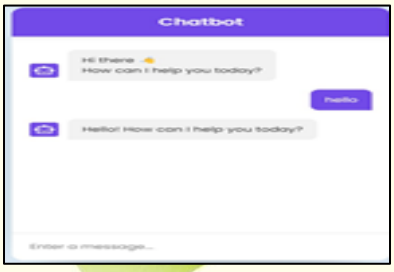
Brief idea of project :

A Chabot is a software that is used to interact between a computer and a human in natural language like humans chat. Chabot's chat with the user in a conversation in place of a human and reply to the user. The goal of this report on Chabot was to resemble a human being in the way they interact, trying to make the user think he is chatting with another human being.

Screenshots of the Project :







Applications :

- Company
- Educational Institutes

Program : Information Technology

Project Title : Housie – Fun For Everyone! (Industry Project)

Domain : Web Application

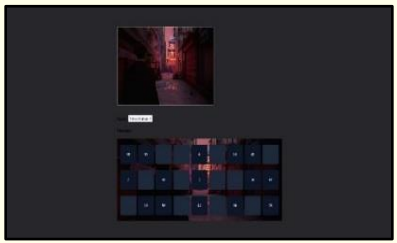
Name of Project Guide : Er. Sushma Pawar

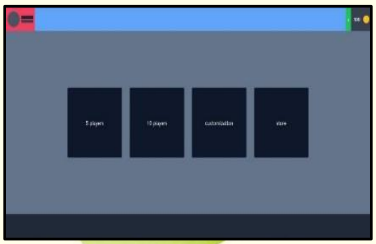
Name of Students : 21202A0001 - Swapnil Kasare
21202A0005 - Devika Mestri
21202A0013 - Hardik Dhondse
21202A0055 - Sarvesh Deshmukh

Brief idea of Project :

"Housie" is a dynamic web application that seamlessly blends entertainment and education within a user-friendly design. With its versatility, the website appeals to a diverse audience and offers a range of educational benefits while being easily adaptable for various occasions. This unique application effectively bridges generational gaps, making it a valuable addition to the world of websites. Built on robust and popular technologies such React js, Node.js, and MySQL.

Screenshots of the Project :





Applications:

- Charity Fundraisers
- Local Community Events

Award:- Published Research Paper on "Gamification in Education "

Program : Information Technology

Project Title : V-Notitia

Domain : Web Application and Internet of Things

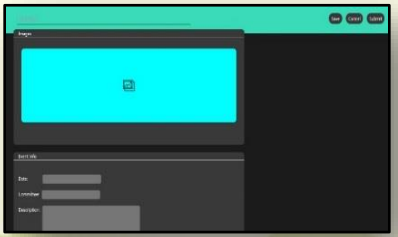
Name of Project Guide : Er. Sunil Dodake

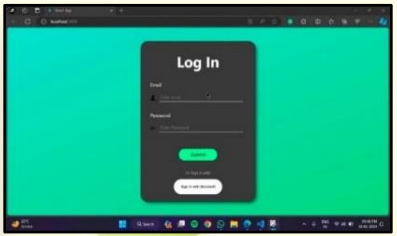
Name of Students : 21202A0016 - Aditya Renose
21202A0024 - Darshan Bathwar
21202A0037 - Hassaan Tole
21202A0057 - Adesh Kadu

Brief idea of Project :

This project proposes an integrated system for efficient management of teacher attendance and communication of upcoming events in colleges. Leveraging face recognition technology, it automates attendance tracking, eliminating manual entry and reducing administrative burdens. Real-time visibility of teacher availability is provided through a dynamic display interface. Additionally, the system includes a centralized platform for scheduling, updating, and broadcasting events, enhancing overall administrative effectiveness.

Screenshots of the Project :





Applications:

- Real-Time Visibility
- Automated presence Tracking
- Enhanced Communication:

Program : Information Technology

Project Title : Healthy Cart

Domain : Web Application

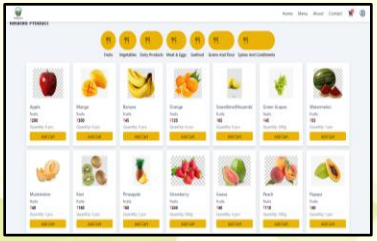
Name of Project Guide : Er .Ekta Pandit

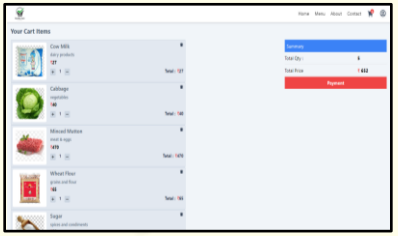
Name of Students : 21202A0020 - Mariyum Asharfi
21202A0052 - Umaid Attar

Brief idea of Project:

This project proposes the development of an advanced grocery store e-commerce and recommendation platform that leverages artificial intelligence (AI) to personalize the shopping experience for individual dietary needs and preferences. By combining a user-friendly online shopping system with features like a BMI calculator and AI-based recipe recommendations, this innovative platform aims to bridge the gap between technological advancements and health-conscious consumerism. Users will be empowered to make informed decisions about their grocery purchases while enjoying the convenience and efficiency of online shopping. This project has the potential to significantly impact consumer behaviour by promoting healthier choices and personalized grocery experiences.

Screenshots of the Project :





Applications:

- Personalized grocery shopping,
- Improved health and well-being,
- Convenience and time savings, Reduced food waste

Program : Information Technology

Project Title : Web Terrorism Analysis

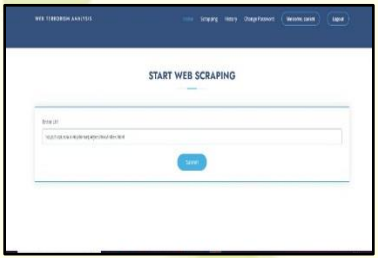
Domain : Web Application

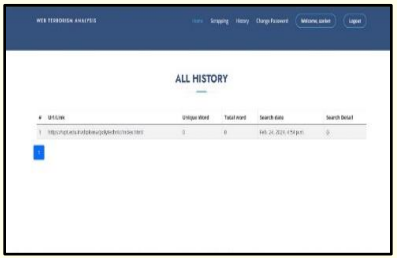
Name of Project Guide : Er. Ekta Pandit

Name of Students : 21202A0019 - Tejas Jambhale
21202A0027 - Soham Bagwe
21202A0035 - Vighnesh Sarang
22202A1003 - Sanket Jangale

Brief idea of Project:
An innovative knowledge-based methodology for terrorist detection by using Web traffic content as the audit information.
The proposed methodology leans the typical behavior (profile) of terrorists by applying a data mining algorithm to the textual content of terror-related Web sites. Detection should be carried out in real-time. The project aims to develop a website that can scan other web URLs for potential terrorism-related threats and list them. It involves web scraping, data analysis, and creating a user interface for users to input URLs and view threat reports. The system also requires security measures, ethical considerations, and legal compliance.

Screenshots of the Project :





Applications:
- Non-governmental organizations and advocacy groups to monitor and report extremist content.

Program : Information Technology

Project Title : MyGym

Domain : Web Application

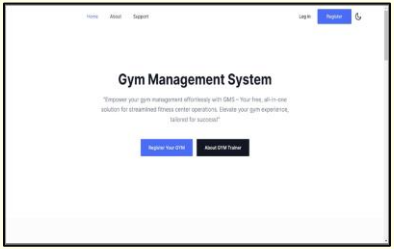
Name of Project Guide : Er .Yogita Khandagale

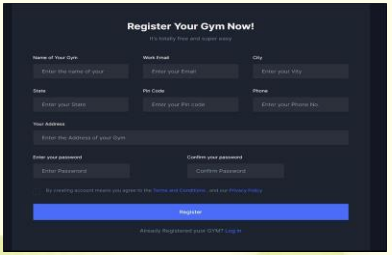
Name of Students : 21202A0031 - Aditya Salunke
21202A0039 - Chaitanya Bhosale
21202A0061 - Aryan Naik
21202A0064 - Krish Pal

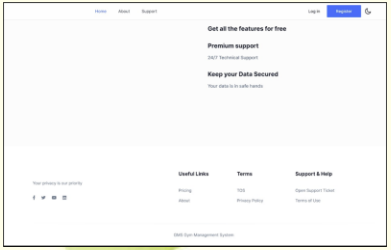
Brief idea of Project:

In today's fast-paced world, maintaining a healthy lifestyle is becoming increasingly important. Gyms and fitness centres play a vital role in helping individuals achieve their health and fitness goals. However, managing a gym efficiently can be a daunting task, especially as the number of members and services offered increases .A Gym Management System is a comprehensive software solution designed to streamline and automate the various administrative and operational tasks involved in running a fitness facility.

Screenshots of the Project :







Applications:

- Fitness Centres and Gyms
- Personal Trainers
- Corporate Wellness Programs

Program : Information Technology

Project Title : Network Monitoring System

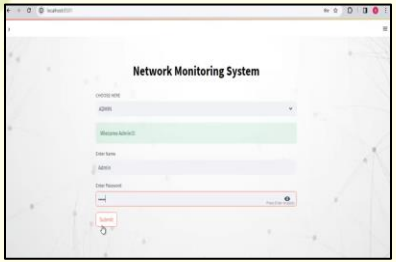
Domain : Web Application

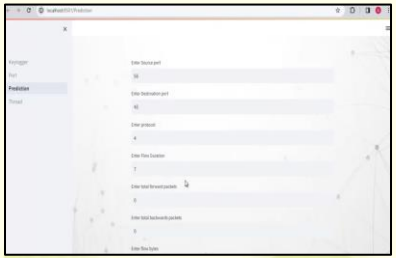
Name of Project Guide : Er. Yogita Khandagale

Name of Students : 21202A0062 - Aafia Shaikh
21202A0032 - Kashif Weldon

Brief idea of Project :
Network Monitoring system allows users to keep track of their network's activity and ensure its security. It provides features such as session time monitoring, and user management even key logging. These features enable individuals and businesses to have better control over their networks, limit the access of unwanted sites or users, and prevent unauthorized access to sensitive data.

Screenshots of the Project :





Applications:
- Advanced Threat Detection,
- Cloud Security

Program : Information Technology

Project Title : Global Trading Platform

Domain : Web Application

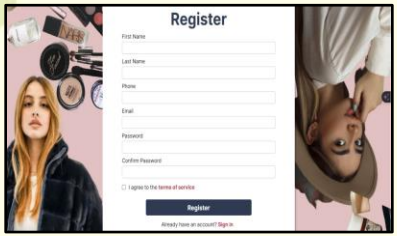
Name of Project Guide : Er. Servesh Gupta

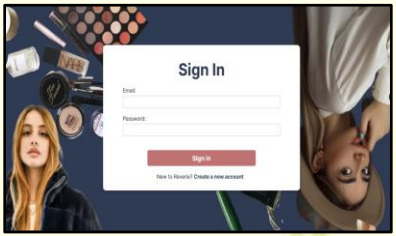
Name of Students: : 21202A0068 - Bhoomi Dhuri
21202A0009 - Shravani Joshi

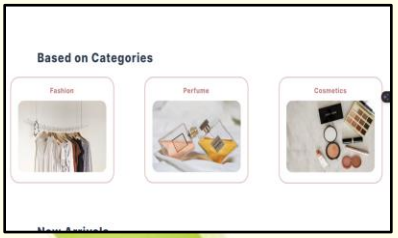
Brief idea of Project :

The Global Trading Platform is an innovative online marketplace designed to connect businesses and individuals worldwide, facilitating seamless trade across borders. With dedicated customer support and mobile accessibility, the Global Trading Platform aims to revolutionize global commerce, providing a dynamic space for growth and opportunity for all participants.

Screenshots of the Project :







Applications:

- Affordable marketplace
- E-commerce store

Program : Information Technology

Project Title : Pawsitive Companion

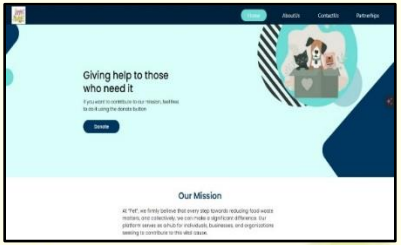
Domain : Web Application

Name of Project Guide : Er .Servesh Gupta

Name of Students : 21202A0067 - Shravani Kadam
21202A0008 - Vaishnavi Patekar

Brief idea of Project :
This app connects volunteers, animal lovers, and local veterinarians to provide much-needed assistance to street dogs and other animals in need. It offers a range of features to support responsible pet ownership, foster a deeper connection between humans and animals, and connect a community of animal enthusiasts.

Screenshots of the Project:



Applications:
- Emergency Pet Services
- Street Dog Care, Pet Health and Well-being Store, Donations and Fundraising etc

Program : Information Technology

Project Title : Crime Mapping

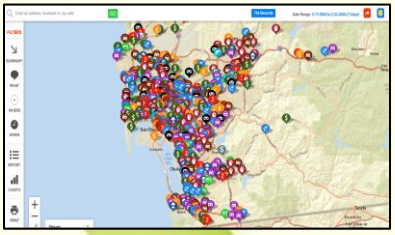
Domain : Web Application

Name of Project Guide : Er .Gauri Bobade

Name of Students : 21202B0045 - Kaustubh Nalawade.
21202B0040 - Yash Talgoankar.
21202B0036 - Mangesh Dixit .

Brief idea of Project :
Mapping law enforcement report data can be an effective way to analyze where crime occurs. The resulting visual display can be combined with other geographic data (such as the locations of schools, parks, and industrial complexes) and used to analyze and investigate patterns of crime and help inform responses.

Screenshots of the Project:



Applications:
- Community Awareness
- Crime Prevention
- Law Enforcement
- Resource Allocation

Program : Information Technology

Project Title : EnviroScan: Environment Quality Prédiction System.

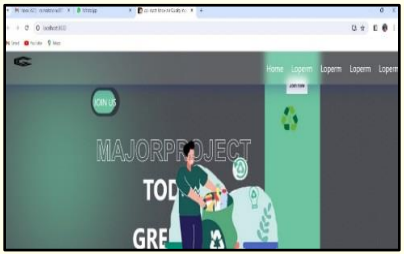
Domain : Web Application

Name of Project Guide : Er .Tanvi Ghole

Name of Students: : 21202B0002 - Vrushali Kurhade
21202B0003 - Namrata Harne
21202B0009 - Shravan Manore
21202B0010 - Diksha More

Brief idea of Project:
EnviroScan is a web-based system designed to predict air, water, and quality using advanced machine learning. Users input key parameters like pollutant levels and weather conditions through a user-friendly interface. The system utilizes historical data from Mumbai to make real-time predictions, aiding decision-making for environmental management. Its architecture allows for future integration of more advanced models, aiming to enhance environmental quality and sustainability.

Screenshots of the Project :



Applications:
- Sustainable development
- Public health protection
- Air quality management
- Water quality assessment

Program : Information Technology

Project Title : Crime Justice

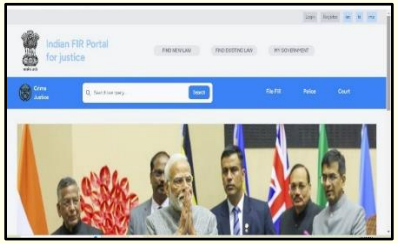
Domain : Web Application

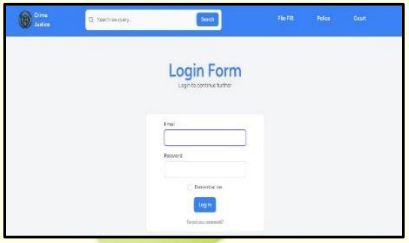
Name of Project Guide : Er .Ekta Pandit

Name of Students : 21202B0017 - Gauri Gangthade
21202B0028 - Nahid Sayyed
21202B0039 - Sanika Kadam
22202B1004 - Samiksha Chibade

Brief idea of Project:
Crime Justice is an online web-based platform that streamlines the process of filing First Information Reports (FIRs) for individuals who have encountered illegal activities. Before initiating any action, users are required to register on the website. This user-friendly platform aims to make reporting crimes more accessible to the general public. It offers localization in Marathi, Hindi, and English, catering specifically to the local people of Maharashtra.

Screenshots of the Project :





Applications:
- Convenient FIR Filing
- User Friendly
- Multilingual Support

Program : Information Technology

Project Title : E-Waste Facility Locator

Domain : Web Application

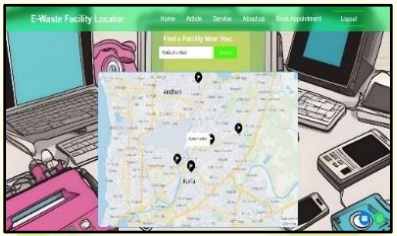
Name of Project Guide : Er .Sridevi Taradi

Name of Students : 21202B0004 - Nilesh Patni
21202B0052 - Samkit Kothari
21202B0053 - Manthan Sawant
21202B0062 - Ved Hande

Brief idea of Project :

Our project is an e-waste management system featuring a user-friendly interface for finding disposal facilities, estimating recycling costs, and accessing detailed facility information. Integration with WhatsApp and email enhances communication, while promoting sustainability and resource recovery. It includes features like user accounts, feedback for facilities, map integration, and APIs for easy integration into other platforms.

Screenshots of the Project :



Applications:

- Public Awareness and Education
- Government Initiatives

Program : Information Technology

Project Title : Innovest

Domain : Web Application

Name of Project Guide : Er. Gauri Bobade

Name of Students : 21202B0007 - Darshan Jain

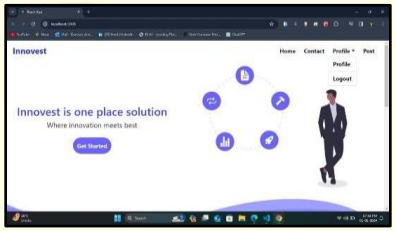
21202B0020 - Ashmit Chamria

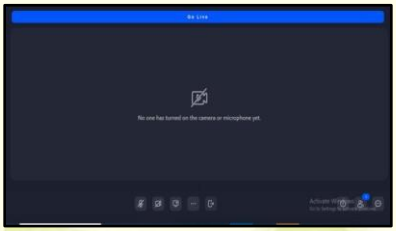
21202B0021 - Sahil Salunkhe

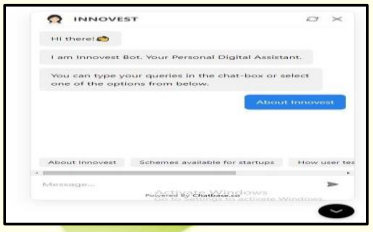
Brief idea of Project :

Our platform connects Public Users, Startups, and Investors, bridging communication gaps. Public Users can collaborate with Startups, test products, and gain mentorship. Startups showcase innovations for feedback and collaboration. Investors provide resources and mentorship. Features include social media functionality, Live Streams for events/mentoring, Video Conferencing for pitches, and an AI Chabot for guidance and support.

Screenshots of the Project :







Applications:

- Facilitates collaboration and feedback for startups across all industries
- Connects artists, designers, and content creators for branding and design projects
- Offers mentorship from investors to nurture aspiring entrepreneurs

Program : Information Technology

Project Title : V-GuideMaster

Domain : Web Application

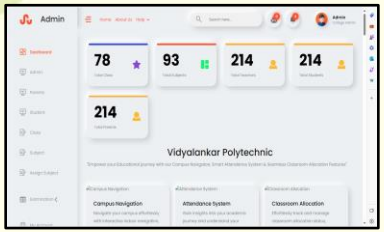
Name of Project Guide : Er. Chetashri Bhusari

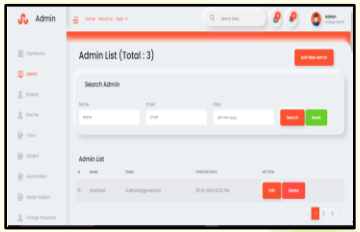
Name of Students : 21202C0015 - Prajwal Dhanawade
21202C0021 - Suyash Mane
21202C0061 - Sakshi Shetye
21202C0062 - Suraj Saini

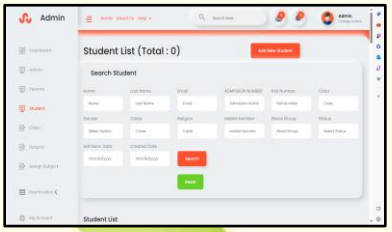
Brief idea of Project :

The system provides 3D maps, attendance tracking,exam view & scheduling, and instant classroom availability checks. This integration boosts user experience, simplifying tasks and maximizing efficiency across the board. Whether navigating or managing attendance, the platform guarantees a smooth and user-friendly experience for all stakeholders.

Screenshots of the Project :







Applications:

- Navigation & Attendance App
- Education Management System
- Student-Focused Platform
- Comprehensive Educational Tool

Program : Information Technology

Project Title : V-Vendo (Industry)

Domain : Web Application

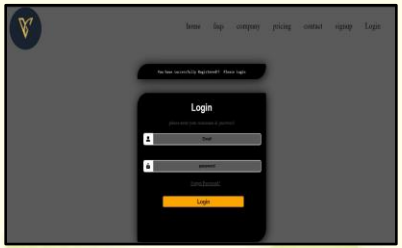
Name of Project Guide : Er .Tanvi Ghole

Name of Students : 21202C0016 - Nihar Koli
21202C0017 - Aksheita Dholakia
21202C0027 - Dhanashree Jadhav
22202C1007 - Sayali Jadhav

Brief idea of Project :

The V-Vendo surpasses traditional vending machine technology in several ways. Existing systems often lack transparency and user-centric features. A vending machine data management application centralizes information from various vending machines. It collects and organizes data on sales, inventory, and machine status, providing real-time insights. This application streamlines monitoring, facilitates inventory management, and enables proactive maintenance, optimizing the efficiency of multiple vending machines.

Screenshots of the Project :



Applications:

- Retail and Commercial Spaces ,Hospitals and Healthcare Facilities
- Transportation Hubs, Entertainment Venues, Hotels and Hospitality

Program : Information Technology

Project Title : Helmet detection system

Domain : Web Application

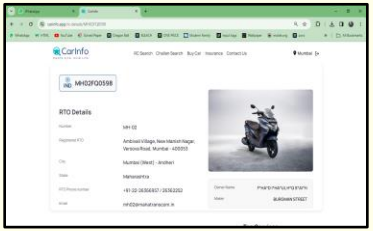
Name of Project Guide : Er. Servesh Gupta

Name of Students : 21202C0002 - Mann Pankhania
21202C0003 - Mohammed Rumaan Shaikh
21202C0032 - Sayed Mohammad

Brief idea of Project:

The Python script constitutes a video processing project aimed at real-time detection and analysis of riders, helmets, and number plates from a streaming video source. Leveraging OpenCV for computer vision tasks, the script initializes video capture from a specified IP camera address, creating an output folder and setting up a video writer for processed frames. If a helmet is detected, relevant information is overlaid on the frame. In cases where no helmet is detected, the script saves the corresponding rider picture and triggers an asynchronous audio alert using Pygame. If a helmet is present, it is visually highlighted on the frame. Additionally, when no helmet is detected for a rider, the script attempts to save the associated number plate images in a designated folder. The loop ends on pressing 'q'.

Screenshots of the Project:



Applications:

- Security and Surveillance
- Helmet Compliance Monitoring

Program : Information Technology

Project Title : Business Accounting Website

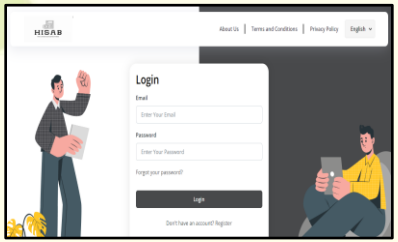
Domain : Web Application

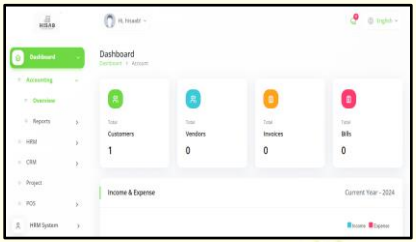
Name of Project Guide : Er. Gauri Bobade

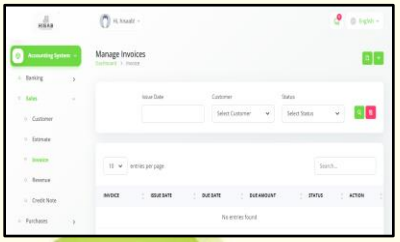
Name of Students :
21202C0048 - Daljit Wasan
21202C0057 - Ishaq khan
21202C0059 - Fahaam Mulla
21202C0064 - Raayef Khan

Brief idea of Project:
A business accounting website is suitable for web development and business competitions and has potential for participation in paper publication events. Its practicality, technical excellence, and innovative features make it a strong contender for recognition.

Screenshots of the Project :







Applications:
- Product stock and services,
- Point of Sale - POS

Program : Information Technology

Project Title : Student Grievance Redressal Cell

Domain : Web Application

Name of Project Guide : Er. Shonal Vaz

Name of Student : 21202C0008 - Sahil Thanawala

Brief idea of Project

The Student Grievance Redressal Cell is typically responsible for addressing and resolving concerns or complaints raised by students regarding various aspects of their academic or non-academic experiences.

Screenshots of the Project :

Applications :

- Educational Institutes

Program : Information Technology

Project Title : SelfHeal-Health care Application

Domain : Mobile Application

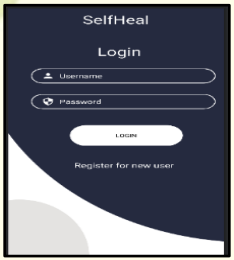
Name of Project Guide : Er. Prerana Jalgaonkar

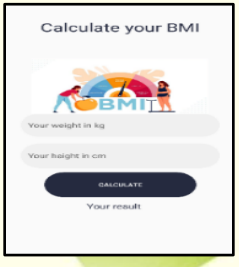
Name of Students : 21202A0026 - Tanvi Shirsat
21202A0029 - Sahil Jadhav
21202A0033 - Zuweina Shaikh
21202A0034 - Manasvi Devlekar

Brief idea of Project :

The healthcare app provides monitoring, reminders, and personalized advice for proactive well-being, including BMI, calorie, and period tracking, plus equipment rental support, which is essential for fitness. It also facilitates modern features like image processing and automated appointment scheduling.

Screenshots of the Project :





Applications:

- Useful in tracking and diagnosing skin disease using image processing
- This app helps track health regularly and reminds you to take medicines and visit the doctor, making sure you stay healthy and stick to your treatments.

Program : Information Technology

Project Title : Code Beacon

Domain : Mobile Application

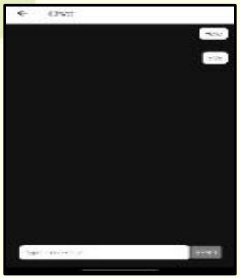
Name of Project Guide : Er. Sridevi Patil

Name of Students : 21202A0010 - Chikane Abhay Bhimrao
21202A0051 - Kazi Mateen Akhtar

Brief idea of Project :

It is a innovative platform combines a Morse code translator with a flashlight feature, enabling users to translate text messages into Morse code and transmit signals visually. With applications ranging from emergency communication to educational and outdoor activities, Code Beacon reimagines Morse code for the digital age, offering a versatile and effective means of communication.

Screenshots of the Project :



Applications:

- Emergency Communication
- Educational Tool, Outdoor Activities
- Disaster Response, Accessibility

Program : Information Technology

Project Title : Chalo Clean Crew App

Domain : Mobile Application

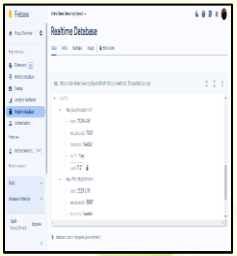
Name of Project Guide : Er. Archana Gopnarayan

Name of Students : 22202A1001 - Jagannath Kumbhar
22202A1004 - Swayam Perve
22202A1006 - Muhammed Shaikh
22202A1007 - Sakshi Kadam

Brief idea of Project :

The "Chalo Clean Crew" app revolutionizes Chalo Bus cleaning operations with smart resource allocation, real-time monitoring, and quality control checks. It enhances collaboration through integrated communication, improves staff skills, and collects customer feedback for continuous enhancement. Performance analytics and gamification elements boost operational efficiency and maintain high cleanliness standards, ensuring a pleasant travel experience.

Screenshots of the Project :



Applications:

- Used for Cleaning Crew Members,
- Used for Cleaning Supervisors and Administrators

Program : Information Technology

Project Title : Krushiyantra Farming Machinery Rental App

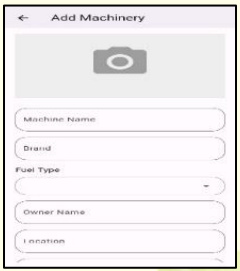
Domain : Mobile Application

Name of Project Guide : Er. Samidha Chavan

Name of Students : 21202A0002 - Atharva Khedekar
21202A0003 - Vansh Jindam
21202A0018 - Varun Ghagare
22202A1009 - Om Telgade

Brief idea of Project:
Krushiyantra empowers farmers by connecting them with essential machinery, simplifying the rental process for easy equipment access. Equipment owners can generate income by renting out their machinery through a user-friendly platform. Real-time communication enhances efficiency and support. Moreover, the platform promotes sustainable and eco-friendly agriculture.

Screenshots of the Project:



Applications:
- Agriculture

Program : Information Technology

Project Title : AdvocateAtlas (Lawyer finder)

Domain : Mobile Application

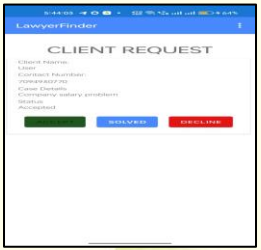
Name of Project Guide : Er. Tanvi Ghole

Name of Students : 21202A0004 - Pari Rathod
21202A0021 - Shifa Shaikh
21202A0066 - Shreya Juvekar

Brief idea of Project :

An Advocate Finder app connects users with qualified lawyers efficiently. Users create profiles, search for advocates based on specialization and location, and read reviews. The app facilitates communication, appointment scheduling, and secure document sharing. It integrates a payment system, offers legal resources, and prioritizes user privacy and security. The goal is to simplify the process of finding and engaging legal representation.

Screenshots of the Project :



Applications:

- Connect lawyers.
- Legal-aid assistance.
- Small business legal support.

Program : Information Technology

Project Title : Rescue Hub

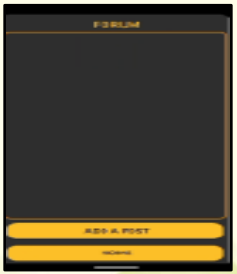
Domain : Mobile Application

Name of Project Guide : Er. Samidha Chavan

Name of Students : 21202B0018 - Piyush Darpe
21202B0033 - Chinmay Lande
21202B0042 - Vighnesh Kamble
21202B0066 - Soham Shinde

Brief idea of Project:
Rescue Hub aims help individual and rescue relief agencies in efficiently handling natural and man-made disasters. This Mobile application helps user to get connected with desired helping agency or individual incase of emergencies and disasters. It includes user module with profile screen, report screen, account service, data service, notifications and real-time communication .

Screenshots of the Project :



Applications:
- Rescue agencies
- Personal Security

Program : Information Technology

Project Title : Social Connectivity App for Farmers.

Domain : Mobile Application

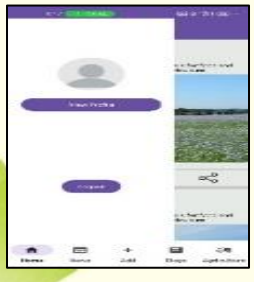
Name of Project Guide : Er. Archana Gopnarayan

Name of Students : 21202B0024 - Tanish Powale
21202B0026 - Nishant Mahajan
21202B0030 - Anish Bandal
21202B0057 - Yash Jadhav

Brief idea of Project:
Our project is an agricultural platform connecting farmers and consumers directly. It serves as a marketplace for farmers to sell their produce, offers news updates, blogs, and disease identification tools, and allows consumers to browse products based on location. It promotes sustainability and community, transforming agricultural practices for the better.

Screenshots of the Project:



Applications:
- Farmers can benefit from blog recommendations for best practices, image-based plant disease identification, and marketplace expansions.
- Consumers can access local produce at better rates. Agricultural departments can have direct outreach to farmers, while seed retailers can expand their market reach.

Program : Information Technology

Project Title : Automated Hydroponics Farm (Industry Project)

Domain : Internet of Things

Name of Project Guide : Er. Chetashri Bhusari

Name of Students : 21202A0022 - Neel Jabuvani
21202A0040 - Prajwal Kasbale
21202A0041 - Rushikesh Patil
21202A0050 - Hrushikesh Bhoir

Brief idea of Project :
Our project Hydroponics is a soilless method of growing plants that uses nutrient-rich water solutions to deliver essential nutrients directly to the plant roots. A wide variety of plants can be grown hydroponically, including vegetables, herbs, and even some fruit-bearing plants. Temperature, humidity, and CO2 levels are carefully monitored and controlled to optimize plant growth

Screenshots of the Project :

Applications:
- Growing fresh produce locally in urban areas.
- Used in schools, universities, and research for studying plant growth and sustainability.
- Providing food quickly in the wake of natural disasters.

Program : Information Technology

Project Title : Sick Care Wrist Band (Industry Project)

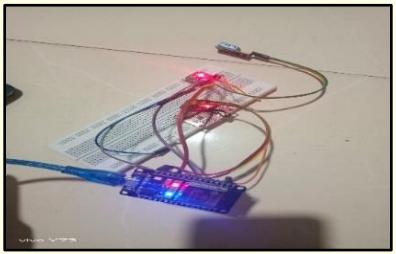
Domain : Internet of Things

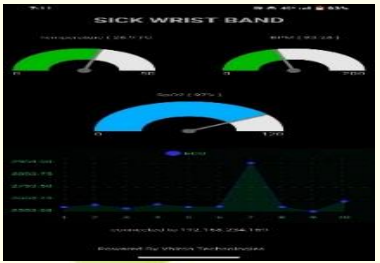
Name of Project Guide : Er. Sushma Pawar

Name of Students : 21202A0014 - Atharva Khillare
21202A0023 - Aditya Jadhav
21202A0042 - Aditya Kamble
21202A0044 - Ammar Khan

Brief idea of Project :
The project entails creating a wristband equipped with sensors to track vital signs such as heartbeat, blood pressure, and temperature in real-time. It involves selecting suitable hardware, designing efficient algorithms for data processing, ensuring user-friendly interface and connectivity.

Screenshots of the Project :





Applications:
- Healthcare and Telemedicine
- Fitness and Sports

Program : Information Technology

Project Title : Automatic Gas Leakage Detection System

Domain : Internet of Things

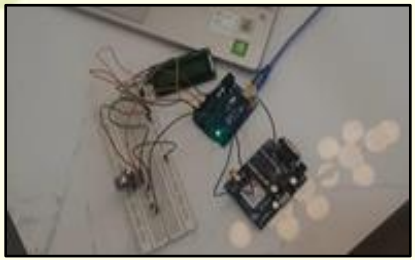
Name of Project Guide : Er. Kalyani Pawar

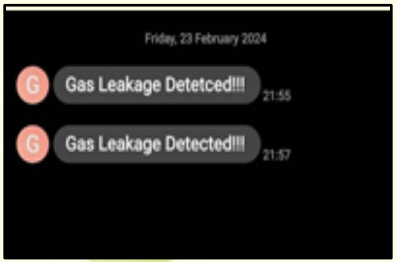
Name of Students : 21202A0012 - Sahil Birje
21202A0015 - Nirjara Satamkar
21202A0036 -Tanay Shirke

Brief idea of Project :

An automatic gas leakage detection system is a safety device designed to detect the presence of gas leaks in an environment, particularly in areas where gas is used or stored, such as homes, businesses, or industrial facilities. It will detect the LPG gas leaks using MQ5 sensor. After detecting the gas, it sends a SMS on the registered mobile number.

Screenshots of the Project :





Applications:

- Home
- Hotels

Program : Information Technology

Project Title : Water Quality Monitoring System

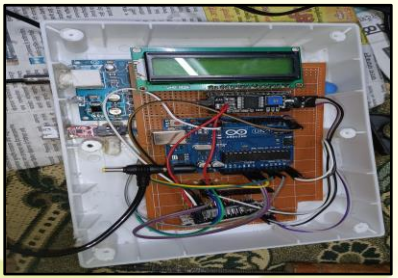
Domain : Internet of Things

Name of Project Guide : Er. Trupti Dudhat

Name of Students : 21202C0045 - Prasad Jayakar
21202C0049 - Swapnil Shinde
21202C0052 - Ritesh Tanalkar
21202C0058 - Soham Naik

Brief idea of Project:
Regular cleaning helps remove these impurities, preventing waterborne diseases and ensuring that the water remains safe for consumption. And hence we have made an IOT model which will help in water cleanliness and maintenances. Basically, our model will specify the quality of water and it will indicate its purity, and its PH level, and it will indicate the amount of chemical that we needed to make water drinkable.

Screenshots of the Project :



Applications:
- Drinking Water Supply
- Research and Education
- Aquaculture, Environmental Protection, Agriculture

Program : Information Technology

Project Title : Farm IQ Soil Guardian

Domain : Internet of Things

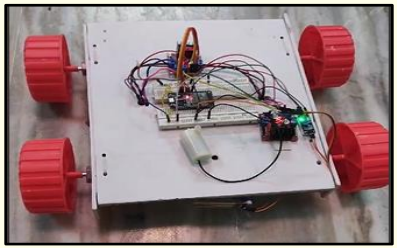
Name of Project Guide : Er. Ketan Bagade

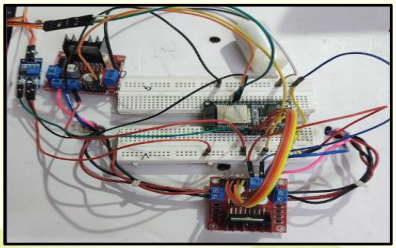
Name of Students : 21202C0005 - Prem Hanchate
21202C0038 - Yaman Jain
21202A0053 - Aditi Talekar

Brief idea of Project :

The FarmIQ Soil Guardian uses sensors and analysis to monitor soil conditions in real-time, offering immediate guidance for sustainable crop management. Built on Arduino, it maximizes efficiency and minimizes environmental impact, while also enabling long-term data collection for informed decisions. The system's adaptability and focus on sustainability make it a transformative tool for modern agriculture, promising increased productivity and environmental stewardship.

Screenshots of the Project :





Applications:

- Crop Monitoring Apps
- Soil Health Assessment Tools
- Weather Forecasting Platforms

Program : Information Technology

Project Title : Automatic Door Opener using Password

Domain : Internet of Things

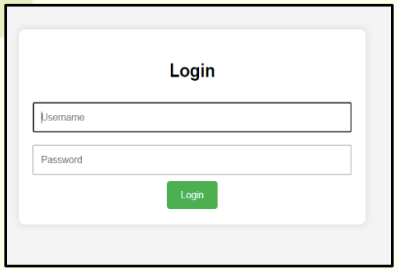
Name of Project Guide : Er. Trupti Dudhat

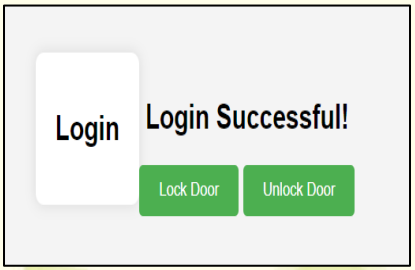
Name of Students : 21202C0041 - Sahil Vagal
22202C1001 - Mukta Redij
22202C1003 - Shruti Avhad
22202C1006 - Harsh Bhosale

Brief idea of Project

Automatic Door Opener using Password is an IOT system which is designed to provide enhanced security to our doors. It is designed with a user login page; where the user can login with the provided username and password. After successful login, the user is able to Lock and unlock the door without a password and the user can also unlock the door with the password

Screenshots of the Project :





Applications:

- Security Solutions

Program : Information Technology

Project Title : Home Automation System

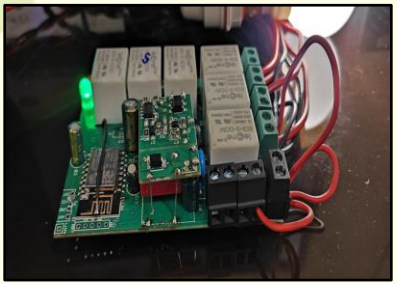
Domain : Internet of Things

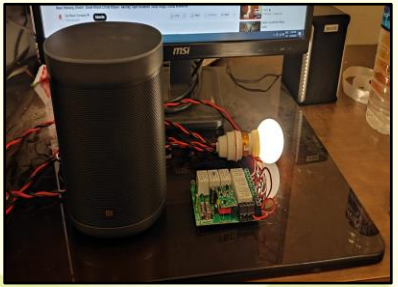
Name of Project Guide : Er. Sunil Dodake

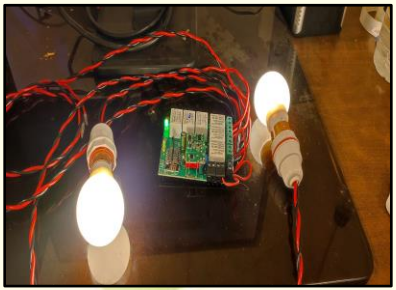
Name of Students : 21202C0005 - Furqan Ansari
21202C0066 - Amaan Khan
21202C0039 - Sufyan Shaikh
21202B0023 - Harsh Jethi

Brief idea of Project :
Home automation is a network of hardware, communication, and electronic interfaces that work to integrate everyday devices with one another via the Internet. automation makes it possible to control or automate tasks related to security, well-being, and comfort through a smart system installed in a home. It also runs on voice command given by a person

Screenshots of the Project :







Applications:
- Remote monitoring

Program : Information Technology

Project Title : V-Track Streamlining Attendance with Intelligent Face Detection & Recognition

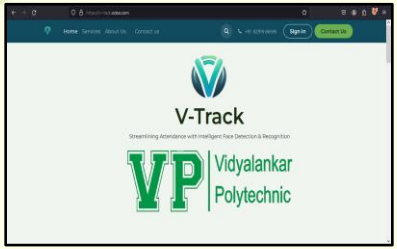
Domain : Image Processing

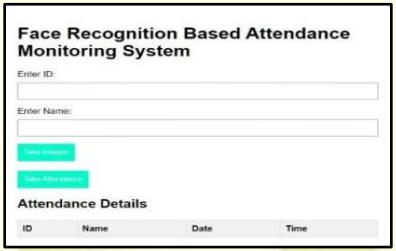
Name of Project Guide : Er. Sunil Dodake

Name of Students : 21202B0049 - Sagar Chotaliya
21202B0055 - Arib Shaikh
22202B1006 - Kaushal Trivedi
22202B1008 - Prathamesh Warak

Brief idea of Project :.
The project focuses on an online attendance system utilizing face detection technology. It involves detecting individuals in specific areas, recognizing faces through facial recognition algorithms, and matching them with a known database for accurate identification. Automatic attendance recording and real-time monitoring capabilities are provided, along with integration options for other software applications to enhance productivity and streamline administrative tasks.

Screenshots of the Project :





Applications:
- Education: Automates student and faculty attendance, reducing admin tasks and ensuring accurate records.
- Corporates: Controls employee attendance, tracks working hours, and streamlines payroll processes.
- Events: Simplifies participant check-in, enhances security, and enables real-time attendance monitoring.

Award:- Published paper on "V-Attack :Online Attendance Tracking "

Program :Information Technology

Project Title : Bulk Message Broadcast Platform (Industry Project)

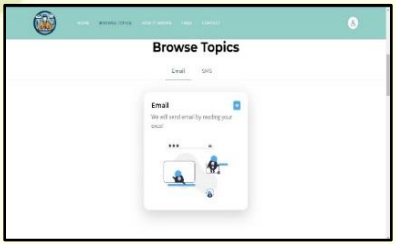
Domain : Networking

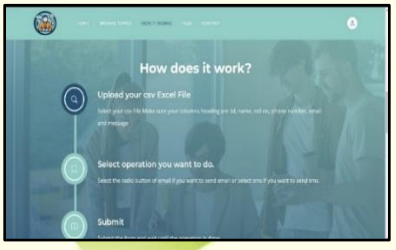
Name of Project Guide : Er. Sushma Pawar

Name of Students : 21202C0004 - Musab Khan
21202C0023 - Sahil Shafi
21202C0040 - Hisham Damudi
21202C0046 - Mayank Malviya

Brief idea of Project:
Bulk messaging broadcast protocols are communication protocols designed to efficiently distribute messages to a large number of recipients simultaneously. These protocols are commonly used in various applications such as marketing campaigns, emergency notifications, customer alerts, and more.

Screenshots of the Project :





Applications:
- Messaging
- Emails

Program : Information Technology

Project Title : Advance ATM Machine Security

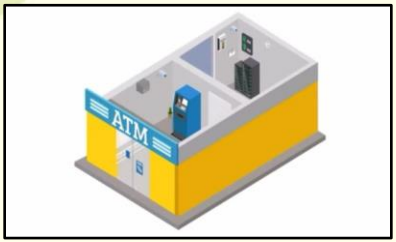
Domain : Security

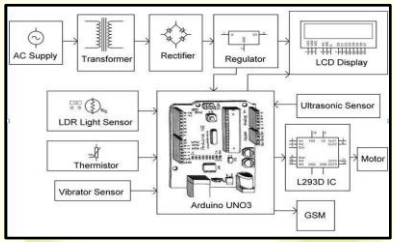
Name of Project Guide : Er. Shonal Vaz

Name of Students : 21202C0011 - Shriya More
21202C0014 - Sahil Hadawale
22202C1004 - Omkar Pawar

Brief idea of Project:
Advanced ATM machine security aims to enhance the security features of Automated Teller Machines (ATMs) to prevent unauthorized access, fraud, and theft. It involves implementing advanced authentication methods, encryption techniques, and real-time monitoring systems to ensure the integrity and confidentiality of transactions.

Screenshots of the Project :





Applications :
- ATM
- Bank

Program : Information Technology

Project Title : Multi-Layered Security for Confidential Data Transmission

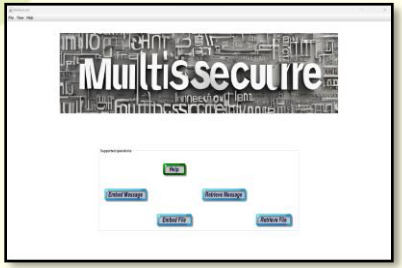
Domain : Desktop Application

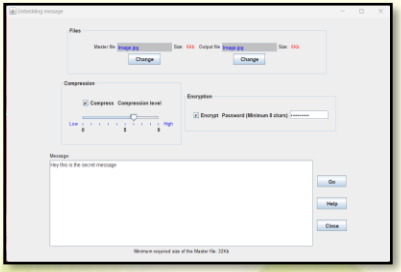
Name of Project Guide : Er. Archana Gopnarayan

Name of Students : 21202C0006 - Pritesh Barik
21202C0007 - Soham Kambli
21202C0012 - Granthik Bhor
21202C0042 - Aryan Mahadeshwar
22202B1007 - Arya Gabhane

Brief idea of Project:
The "Multi-Layered Security for Confidential Data Transmission" project utilizes RSA-LSB-Modulus 4 steganography to embed encrypted message and file bits into image pixels, enhancing security. It employs MD5 hashing for data integrity and incorporates user authentication validation to prevent unauthorized access.

Screenshots of the Project :





Applications:
- Government and Military for secure communication
- Healthcare for patient data protection
- Financial Services for secure financial transactions

Final Year Project Committee
Program: Information Technology

	**Er. Yogita Khandagale** **(HOD, Department of Information Technology)**
	**Er. Samidha Chavan** **(Project Coordinator, Department of Information Technology)**

V-Ideas

Program
Electronics and Telecommunication Engineering

Program: Electronics and Telecommunication Engineering

Vision

To produce Electronics and Telecommunication engineers capable of effectively using technical knowledge and interpersonal skills to benefit the industry and society.

Mission

- Providing state of the art facilities and conducive environment enabling the students to sustain the challenges in the field of Electronics and Telecommunication.
- Educating the students to face the competitive world, develop leadership skills and to instill discipline and ethics.
- Promoting industry institute interaction.

Program Educational Objectives

- **PEO1:** Provide socially responsible, environment friendly solutions to Electronics and Telecommunication engineering related broad-based problems adapting professional ethics.

- **PEO2:** Adapt state-of-the-art Electronics and Telecommunication engineering broad-based technologies to work in multi-disciplinary work environments.

- **PEO3:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program Outcomes

PO1. **Basic knowledge:** Apply knowledge of basic mathematics, sciences and basic engineering to solve the broad-based Electronics and Telecommunication engineering problems.

PO2. **Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.

PO3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4. **Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

Program Outcomes

PO5. **Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7. **Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes

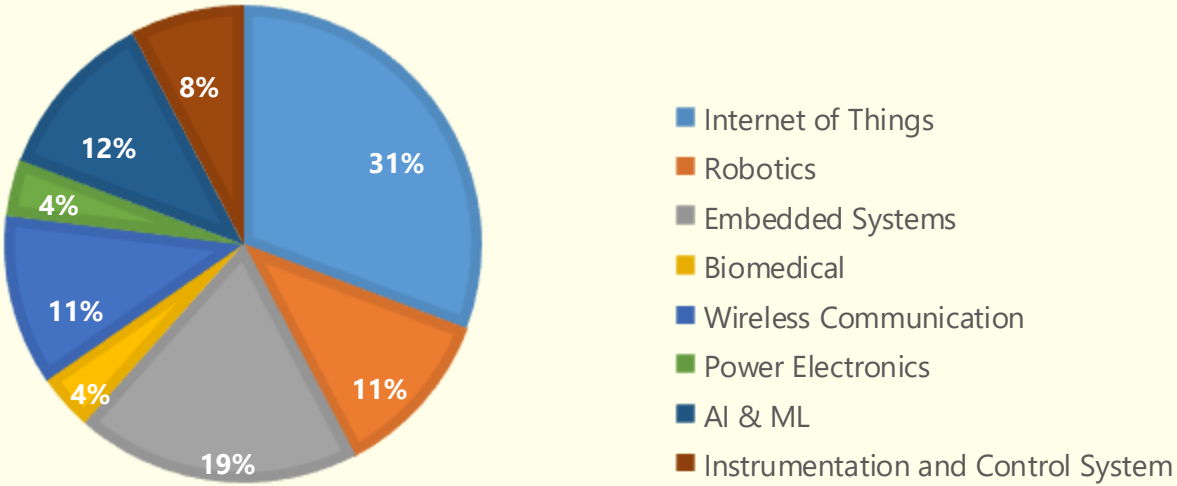
PSO 1. Electronics and Telecommunication Systems: Maintain various types of Electronics and Telecommunication systems.

PSO 2. EDA Tools Usage: Use EDA tools to develop simple Electronics and Telecommunication engineering related circuits**.**

Analysis of Capstone Project (2023 - 2024)

Domain Wise Project Distribution

Internet of Things	Robotics	Embedded Systems	Biomedical	Wireless Communication	Power Electronics	AI & ML	Instrumentation and Control System
8	3	5	1	3	1	3	2
26							



Program: Electronics and Telecommunication Engineering

Program: Electronics and Telecommunication Engineering

Program: Electronics and Telecommunication Engineering

Program: Electronics and Telecommunication Engineering

Project Title : Water Quality Monitoring System

Domain : Internet of Things

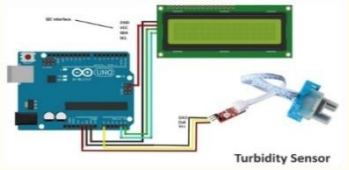
Name of Project Guide : Mrs. Minal Tandale

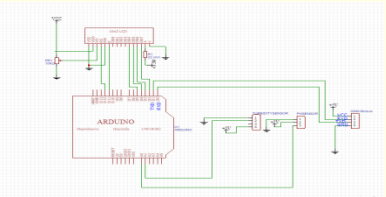
Name of Students : 21201A0041 - Sarvesh Jadhav
22201B1024 - Lalit Chalke
22201B1014 - Sagar Kharatmol

Brief idea of project:

Water quality is crucial for health and ecology, but traditional monitoring methods are labor-intensive and costly. Sensor-based systems offer speed and sensitivity, improving real-time assessment. Remote, portable monitoring ensures prompt notification of water parameter abnormalities, enhancing safety.

Screenshots of the Project:





Applications:

- The system is used in commercial as well as in domestic use.
- Water supply agencies.
- In medical researches
- For health department to identity the reason of water of water diseases

Program : Electronics and Telecommunication Engineering

Project Title : Thermal Camera

Domain : Internet of Things

Name of Project Guide : Er. Madhavi Machapurm

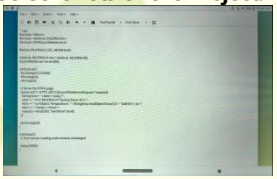
Name of Students: : 21201A0014 – Yash Kamble

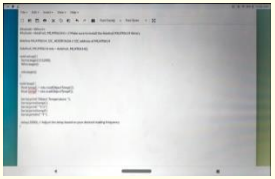
21201A0029 – Poorva Jadhav

Brief idea of project:

The thermal camera project involves creating a device using the Melexis MLX90640 infrared sensor, ESP32 microcontroller, and a 2.4-inch display. The goal is to capture and visualize real-time temperature data from the surroundings. The ESP32 processes the data, displays it on the 2.4-inch screen, and offers user-friendly controls. Optional features include power optimization, data logging, and a temperature alarm system. Thorough testing and documentation ensure a functional and practical thermal camera for applications like temperature monitoring.

Screenshots of the Project:





Applications:

- Industrial Temperature Monitoring
- Health Screening and Monitoring
- Home Appliance Inspection

Program : Electronics and Telecommunication Engineering

Project Title : RFID Car Parking System With Arduino

Domain : Internet of Things

Name of Project Guide : Er. Pranesh Naik

Name of Students : 22201B1005 – Sushant kadam

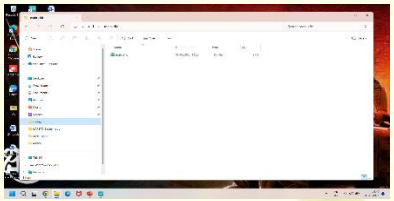
22201B1011 – Vaibhav bhajanavale

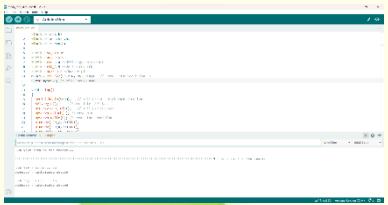
22201B1012 – Ashish Jadhav

Brief idea of project:

Developing an RFID Car Parking System with Arduino, the project aims to revolutionize parking management. Utilizing RFID technology for vehicle identification and Arduino microcontrollers for automation, it ensures swift and secure entry/exit processes. Components include RFID tags, servo motors, LED indicators, and buzzers. Benefits include enhanced efficiency, security, and user experience. The scalable system offers potential for future integration with IoT and machine learning. With a focus on reducing congestion and improving overall parking efficiency, the project aims to pave the way for smarter urban mobility solutions.

Screenshots of the Project:





Applications:

- Corporate Office Park
- Residential Community
- Shopping Center

Program : Electronics and Telecommunication Engineering

Project Title : Gesture Control Switches for Home Appliances

Domain : Internet of Things

Name of Project Guide :Er. Shanti S Krishnan

Name of Students: :201A0043 - Maske Adityaraj Rajaram

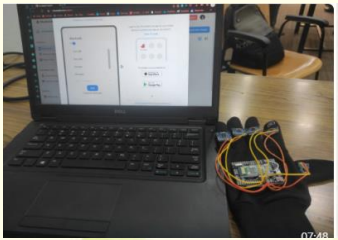
21201A0046 - Hire Nilesh Madukar

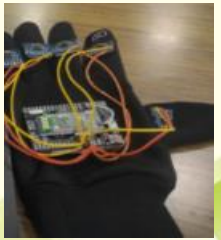
21201A0051 - Lokhande Priyanshu Manish

Brief idea of project:

Gesture Controlled Glove aims to bridge the gap between the user and traditional physical hardware devices. By removing the distance between the user and traditional hardware devices, our goal is to feel more like an extension of the body as opposed to an external machine. As an investigation into this idea, the goal of this project is to capture simple hand gestures and use that input to obtain a desired output.

Screen Shots:





Applications:

- Automotive sector ,Consumer electronics sector, Home automation

Program : Electronics and Telecommunication Engineering

Project Title : Smart Dustbin

Domain : Internet of Things

Name of Project Guide : Er. Helina Tendel

Name of Students : 22201B1009- Tejas Prabhakar Gudekar

22201B1006- Pranav Chimaji Parab

Brief idea of project:

A smart dustbin project involves integrating technology to create an intelligent waste management system. The goal is to improve efficiency in waste collection, promote recycling, and contribute to a cleaner environment. Here is a brief idea of a smart dustbin project smart dustbin project combines hardware, software, and data analytics to revolutionize traditional waste management, making it more efficient, sustainable, and user-friendly. This project consists of arduino uno, ultrasonic sensor and motor.

Screenshots of the Project:

Applications:

- Urban Waste Management
- Public Spaces and Parks
- Commercial and Residential Areas
- Tourist Attractions.

Program : Electronics and Telecommunication Engineering

Project Title : Alcohol Detection System

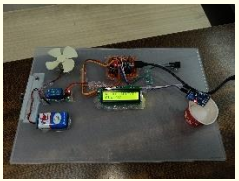
Domain : Internet of Things

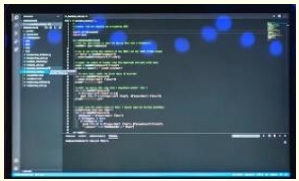
Name of Project Guide : Er. Shilpa Gaikwad

Name of Students : 21201B0040 – Saud Shaikh
21201B0041 – Chirag Soliya
22201B1017 – Saqib Ahmed
22201B1032 - Yashwant Prasad

Brief idea of project:
Sensor Setup: Install the MQ-3 alcohol sensor in the car to detect alcohol levels. Threshold: Set a limit for safe alcohol levels. Constantly check alcohol levels using the sensor. If alcohol levels exceed the limit, the system locks the engine, preventing the car from starting or continuing to run. Notify the driver about the engine lock to ensure they're aware of the situation.

Screenshots of the Project:





Applications:
- Automobile
- Public Transportation
- Personal Vehicles

Program : Electronics and Telecommunication Engineering

Project Title : Solar Based Grass Cutter

Domain : Internet of Things

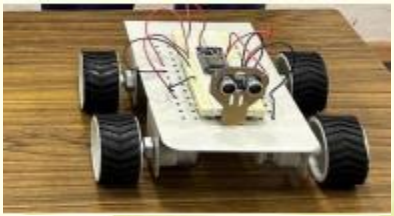
Name of Project Guide: : Er. Pranesh Naik

Name of Students: : 21201A0033 – OnkarBhogale
21201A0040– ShreedharAavte
21201A0045 – Meet Jain

Brief idea of project:

Our project involves creating a grass cutter that operates using solar power. This likely includes a system where solar panels collect sunlight and convert it into electrical energy to power the grass cutter's motor or blades. The aim is to design an eco-friendly and sustainable solution for grass cutting, reducing reliance on traditional fossil fuel-powered equipment. Key components may include solar panels, a rechargeable battery or energy storage system, a motor, and cutting blades, all integrated into a compact and efficient design.

Screenshots of the Project:



Applications:

- Golf course
- Residential lawns
- Green roofs

Program : Electronics and Telecommunication Engineering

Project Title : Surveillance Robot

Domain : Internet of Things

Name of Project Guide :Er. Shanti S Krishnan

Name of Students: :21201B0044 - Swadeep Gaikwad

22201B1010 - Krishna Gujari

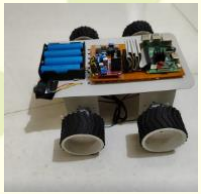
22201B1007 - Athish Sarode

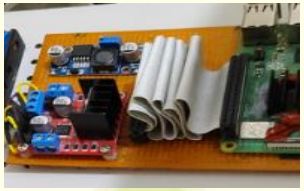
22201B1002 - Harsh Agawane

Brief idea of project:

The main objective behind this project is to develop a robot for surveillance in industrial & war areas. The project is designed to develop a robotic vehicle using android mobile. For remote operation attached with wireless camera for monitoring purpose. The robot along with camera wirelessly transmit real time video with low light vision capabilities. This is kind of robot will be helpful for spying purpose in war fields. The wi-fi technology is relatively new as compared to other technologies and there is huge potential of its growth and practical application. The security system then acts on these command and responds to the user. The ESP 32 camera is attached with security system for remote surveillance. This kind of robot will be controlled by a human operator, sometimes from a great distance.

Screen Shots:





Applications:

- Automotive sector ,Consumer electronics sector, Home automation

Program : Electronics and Telecommunication Engineering

Project Title : Gesture Following Robot

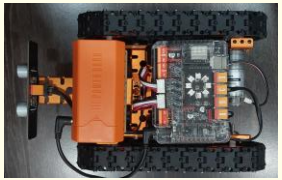
Domain : Robotics

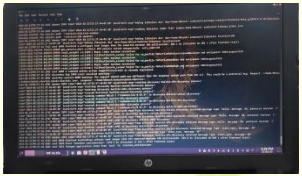
Name of Project Guide : Er. Anjum Mujawar

Name of Students : 21201A0001 – Dhruv Kotian
21201A0011 – Shivesh Bidari
21201A0019 – Mrinmayee Jagtap

Brief idea of project:
A gesture-following robot is a robot that can detect and interpret human gestures, typically using sensors like cameras or depthsensors, and then follow the movements of the human by analyzing these gestures. The robot translates these gestures into commands for its movement, allowing it to follow the person as they move around. This can have applications in areas like assistive robotics, entertainment, and human-robot interaction.

Screenshots of the Project:





Applications:
- Assistive Technology
- Interactive Exhibits
- Industrial Collaboration

Program : Electronics and Telecommunication Engineering

Project Title : Advance Prostatic Arm Development

Domain : Robotics

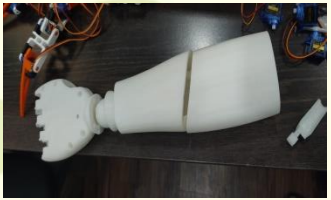
Name of Project Guide : Er.Pranjali Patil

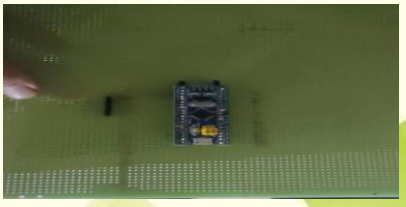
Name of Students : 21201B0034-Syed Furqaanuddin Azharuddin
21201A004 Pranav Vadnala
22201B1031 - Md Shad Khan

Brief idea of project:

Our project aims to design and develop an advanced prosthetic arm that offers improved functionality, comfort, and user experience for individuals with upper limb loss. A prosthetic arm is a mechanical device designed to replace a missing limb. It consists of a socket, which attaches to the residual limb, and various components such as joints, motors, and sensors to mimic the movement and functionality of a natural arm. Advanced prosthetic arms can be controlled through muscle signals, allowing users to perform tasks like grasping objects with precision. They are customized to fit the individual's needs and can greatly improve quality of life and independence for amputees.

Screenshots of the Project:





Applications:

- Industrial robot
- Artificial limb replacement
- Rovers
- Medical Rehabilitation
- Sport and recreation

Program : Electronics and Telecommunication Engineering

Project Title : Automated CNC drill machine

Domain : Robotics

Name of Project Guide : Er. Apurva Sumeet Wadekar

Name of Students : 21201B0047 – Sudan Jerald

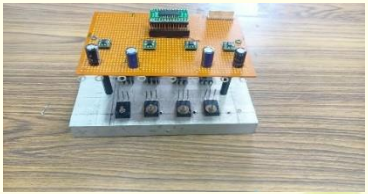
22201B1013 – Ayush Mane

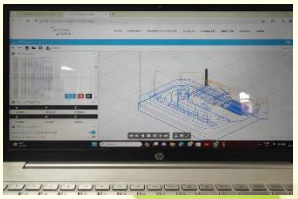
22201B1021 – Sahil Pandhare

Brief idea of project:

Computer Numerical Control (CNC) drilling machining is designed to streamline and enhance precision drilling processes. It's aim is to integrates user-designed patterns into the CNC drill machine, automating the drilling procedure with a focus on accuracy and efficiency. The machine utilizes state-of-the-art stepper motors and sensors to guarantee accurate positioning and depth control, minimizing errors and enhancing the overall drilling accuracy.

Screenshots of the Project:





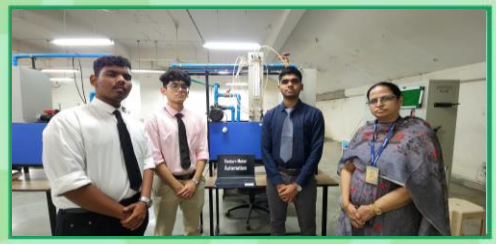
Applications:

- PCB drilling
- Medical Device manufacturing
- Jewellery Making

Program : Electronics and Telecommunication Engineering

Project Title : Automation of Venture-meter.

Domain : Power Electronics



Name of Project Guide : Er. (Dr.) Sandhya Kumar.

Name of Students: : 21201A0036 – Vishu Rawate

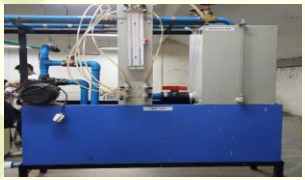
21201A0060 – Sujal Bhandari

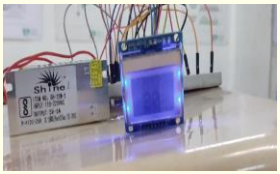
21201B0011 – Amey Jadhav

Brief idea of project:

A Venturi meter is a device that is used for measuring the speed of a fluid within a pipe. Accurate measurement of flow rate is crucial for various industrial and engineering applications. Application of Venturi meters are in food processing Industries, Plumbing, The Flow of Chemicals in Pipelines, Carburettors, slow sand filter, medical industry, Water treatment plant, Chemical processing, HVAC systems, Power Generation systems, Oil and gas industry etc. Diagram for Automation of Venturi meter is proposed in this synopsis.

Screenshots of the Project:





Applications:

- Measuring flow of liquids and gases
- Used in institution

Program : Electronics and Telecommunication Engineering

Project Title : Smart Agriculture Monitoring System

Domain : Wireless Communication

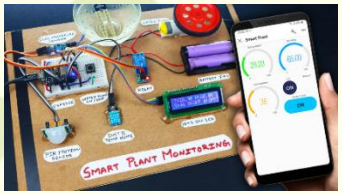
Name of Project Guide : Er. Apurva Sumeet Wadekar

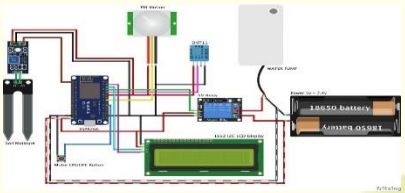
Name of Students : 22201B1015 – Prajapati Nripendra Sunil
22201B1016 – Pawar Yash Vidyadhar
21201B0042 – Viren Jogle

Brief idea of project:

The Smart Agriculture Monitoring System is like a helpful assistant for farmers. It uses special sensors to keep an eye on things like how wet the soil is, how humid it is, and if there's any movement in the field. With this information, it can automatically water the plants when needed and send alerts to the farmer's phone if anything unusual happens. It's like having a smart guardian for the farm, making farming easier and more efficient.

Screenshots of the Project:





Applications:

- Remote Farm Management

Program : Electronics and Telecommunication Engineering

Project Title : Smart mirrors using Raspberry Pi

Domain : Wireless Communication

Name of Project Guide : Er. Pranjali Patil

Name of Students: : 21201A0047 – Ayan Kazi

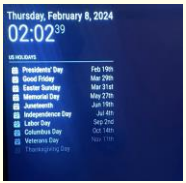
21201A0006 – Aiman Mansuri

21201A0020 – Ismail Fodkar

Brief idea of project:

A smart mirror is a modern twist on the traditional mirror, integrating technology to provide information and functionality beyond just reflection. Typically built using a two-way mirror, a display screen, and a computing device like a Raspberry Pi, a smart mirror can show real-time updates such as weather forecasts, news headlines, calendar reminders, and even social media notifications. By connectivity, it can also offer features like voice commands, and personalised user interfaces. Smart mirrors not only enhance the aesthetics of a space but also serve as interactive hubs for information and convenience in homes, offices, and retail environments.

Screen Shots:-



Applications:

- Used for News, and life Updates
- It can be use in House Hold Applications
- It used as Information Hubs
- Used for weather Updates

Program : Electronics and Telecommunication Engineering

Project Title : Parking Prediction and Traffic Management System

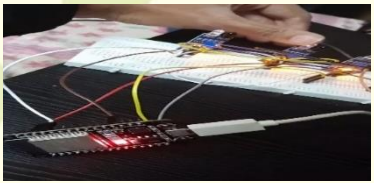
Domain : Wireless Communication

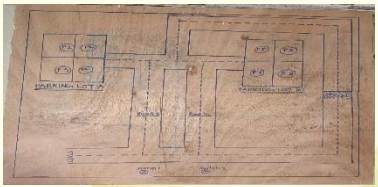
Name of Project Guide : Er. Pratik Tawde

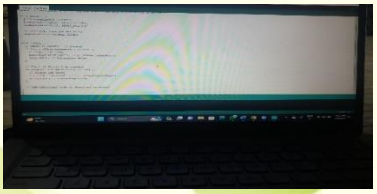
Name of Students : 21201B0046 – Gaurav Sharma
21201B0022 – Amit Prajapati
21201B0048 – Saif Khan

A brief idea of the project:
Parking prediction and traffic management system is implemented using IoT (Internet of Things) in which ESP32 controller and IR sensors are used. The sensor will sense and the data will be uploaded to the cloud when the car will enter on the road then it will see the traffic on the different road. Using LED Strip and Switch to indicate the traffic part suppose one road 1 is busy then we have to press the switch that indicates that road 1 is busy so we have to go to via road 2 and when traffic part is clear then he/she open the website to see the free parking slot and suppose all 3 road is busy then the car will go on to the road 3 but on road 3 there is toll part when the car will go to road 3 then they have to pay some amount of money on toll then the car will go for parking.

Screenshots of the Project:







Applications:
- Smart Parking Systems
- Traffic Flow Optimization

Program : Electronics and Telecommunication Engineering

Project Title : CANBUS-Based Elevator Call Point

Domain : Embedded System

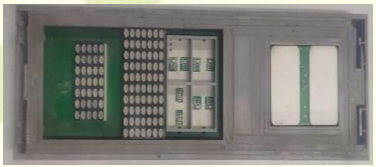
Name of Project Guide : Er. Helina Tendel

Name of Students : 22201B1026 - Yuvraj Singh
22201B1028 - Aaryan Gaurat
22201B1018 - Divyesh Parulekar

Brief idea of project:

In response to the digital era, our project introduces the CANBUS-Based Elevator Call Point, leveraging Controller Area Network (CAN) technology to revolutionize traditional elevator systems. This innovative solution incorporates a multifaceted hardware device with a call button, display, and CAN interface for seamless data communication within the elevator system. The CAN controller manages messages, and the transceiver ensures reliable communication, optimizing elevator services. Beyond the call point, the project extends to the elevator control system, ensuring compatibility with CAN communication for call requests, floor selection, and movement. Additionally, by eliminating the need for extensive cables, it renders the elevator wireless, contributing to cost efficiency and reducing installation expenses.

Screenshots of the Project:



Applications:

- Elevator systems in smart buildings
- Industrial automation for efficient vertical transportation
- Offices & Malls: CANBUS elevators boost efficiency in commercial spaces

Program : Electronics and Telecommunication Engineering

Project Title : Water Management System

Domain : Embedded Systems

Name of Project Guide: : Er. Minal Gorde

Name of Students: : 21201A0021 – Anuj Worlikar

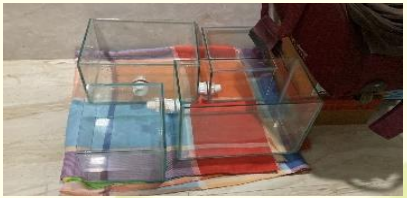
21201A0022 – Tanmay Suvare

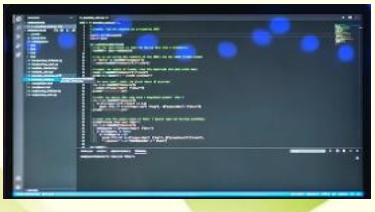
21201A0031 – Aayush Khandekar

Brief idea of project:

This project tackles water challenges head-on through the power of the ESP32, replacing the "IoT gateway" with this versatile microcontroller. Project deploy smart sensors like pH and turbidity, all connected to the ESP32 for real-time data analysis. This eliminates the need for a central hub, simplifies the solution, and empowers you to manage water resources efficiently. Imagine tackling dirty water, uneven distribution, and other challenges with a single, powerful ESP32-based system. Let's revolutionize water management with smarter technology

Screenshots of the Project:





Applications:

- Smart Cities and Municipal Water Systems
- Residential Water Management
- Agriculture and Irrigation
- Industrial Facilities

Program : Electronics and Telecommunication Engineering

Project Title : ECO-GLIDE

Domain : Embedded Systems

Name of Project Guide : Er. Shrinivas Paivernekar

Name of Students: : 22201B1003 – Sakshi Kadam

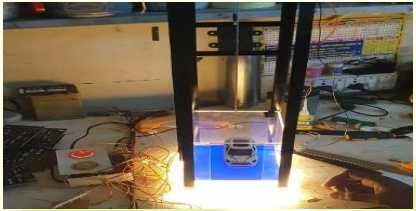
22201B1019 – Soham Gurav

22201B1023 – Varun Wadke

Brief idea of project:

The Eco-glide(Automatic car washing and vertical parking system) is a cutting-edge solution designed to optimize parking space utilization in urban environments. It is an innovative solution for optimizing parking space. It utilizes a vertical lift to transport vehicles to designated parking slots, maximizing efficiency and reducing the required footprint. This technology enhances urban parking by addressing space constraints and offering a convenient, automated parking experience. The system typically includes sensors, a control system, and safety features to ensure seamless and secure operations. Its integration into urban infrastructure can contribute to smarter, space-saving city planning.

Screenshots of the Project:



Applications:

- Event Venues
- Retail Centers
- Commercial Buildings.

Program : Electronics and Telecommunication Engineering

Project Title : Fire Alarm System

Domain : Embedded Systems

Name of Project Guide : Kirti Gupta

Name of Students: : 21201A0015 - Vedant Malekar

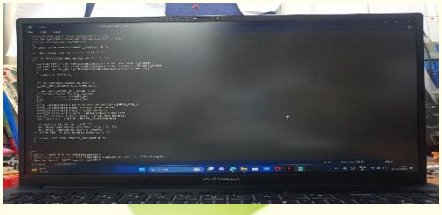
21201A0026 - Yash Vardam

21201A0032 - Vedant Patil

Brief idea of project:

The Fire disaster is a great threat to our lives and properties. Automatic fire alarm system can provide real time surveillance, data monitoring, and generates important alarms to predict and protect our lives and belonging. Now days, the development in construction is enhanced due to the floor count limits per apartment is also increase to 50 to 100 floors [277.6 meters / 911 feet]. The important task is to communicate with all floor and transfer floor data to the master controller. The RS485 communication with extension resolve these problems. GPRS communication allow us to generate alarms and get quick notifications to the administration or supervisor.

Screenshots of the Project:



Application :

- Used in Buildings upto 100 floors
- Industries
- School/College

Program : Electronics and Telecommunication Engineering

Project Title : Accurate ESP32 Decibel Meter

Domain : Embedded System

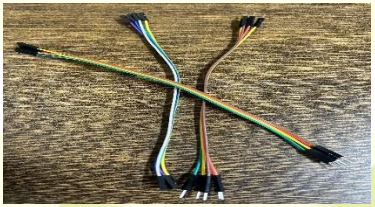
Name of Project Guide : Er. Arpit Bankar

Name of Students : 21201B0020 - Prathamesh Yashwant Dhuri
21201B0024 - Manav Suresh Nalawade
21201B0049 - Omkar Suresh Patle

Brief idea of project:

An ESP32-based decibel meter is a device that utilizes the ESP32 microcontroller to measure and display sound levels in decibels (dB). It typically involves connecting a sound sensor to the ESP32, which captures audio input. The ESP32 processes this input to calculate the sound pressure level (SPL) and then displays the results. ESP32-based decibel meters are commonly used in DIY projects, educational settings, and certain applications where a cost-effective and customizable solution is sufficient. However, for professional and highly accurate sound level measurements, dedicated sound level meters with precise calibration are typically preferred.

Screenshots of the Project:



Applications:

- For Timetable/to do list
- Notice for institute
- Menu for restaurant

Program : Electronics and Telecommunication Engineering

Project Title : Smart Health Monitoring Vest

Domain : Biomedical

Name of Project Guide: : Er. Anjum Mujawar

Name of Students : 21201A0017 – Tanishq Mudaliar

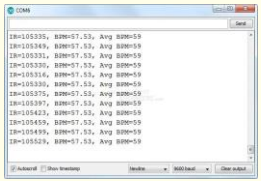
21201A0016 – Rudra Nisar

21201A0034 – Khuzema Erandpurwala

Brief idea of project:

The Smart Health Monitoring Vest is a wearable device designed to track and analyze various health metrics. Equipped with sensors, it monitors vital signs such as heart rate, respiratory rate, and temperature in real-time. The data is then transmitted to a connected mobile app, providing users and healthcare professionals with valuable insights for proactive health management. Comfortable and discreet, the vest aims to enhance remote patient monitoring and improve overall health outcomes.

Screenshots of the Project:



Applications:

- Hospitals for regular health check
- Elderly people
- Athletes/Bikers
- Rural Areas

Program : Electronics and Telecommunication Engineering

Project Title : Weather Monitoring System using ESP 32

Domain : Instrumentation and Control System

Name of Project Guide : Er. Shilpa Gaikwad

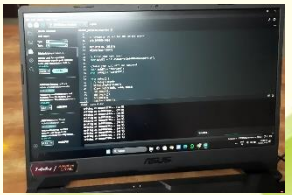
Name of Students : 21201B0014-Sharvari Shinde

21201B0036-Shreya Kadam

Brief idea of project:

A weather monitoring system typically involves collecting data from various sensors like temperature, humidity, air pressure,Altitude. This data is then processed and analyzed to provide accurate weather forecasts and real-time updates. The system may include satellite imagery, weather stations, and also in college campus warnings for severe weather events. It's crucial for agriculture, transportation, disaster management, and everyday planning.

Screenshots of the Project:



Applications:

- Hydroelectricity
- Campus of college

Program : Electronics and Telecommunication Engineering

Project Title : Home Automation

Domain : Instrumentation and Control System

Name of Project Guide : Er. Imran Sayyed

Name of Students : 21201B0035 – Saniya Chougale

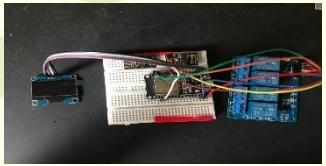
21201B0037 – Jay Kadam

21201B0043 – Latikesh Aier

Brief idea of project:

Home automation systems have become increasingly popular in recent years, offering enhanced convenience, energy efficiency, and security for homeowners. This project presents a home automation solution utilizing the Arduino Uno microcontroller and the ESP8266 Wi-Fi module. The system integrates various sensors, actuators, and a user interface to enable monitoring and control of devices within a home environment. The Arduino Uno serves as the central processing unit, managing data from sensors and controlling actuators based on predefined automation logic. The ESP8266 module provides wireless connectivity, allowing the system to communicate with the home Wi-Fi network, enabling remote control and monitoring. The project aims to create a versatile and user-friendly home automation system with potential applications in areas such as climate control, lighting, and security.

Screenshots of the Project:



Applications:

- Smart home
- Security and Surveillance

Program : Electronics and Telecommunication Engineering

Project Title : Disease Prediction System

Domain : AI and ML

Name of Project Guide : Er. Anjum Mujawar

Name of Students: : 21201B0004 – Mohammed Zaid Ansari

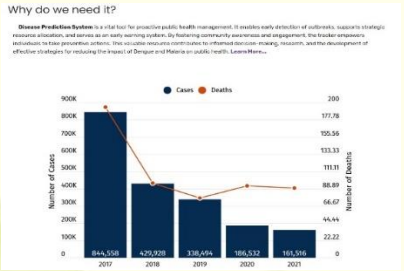
21201B0006 - Vaibhav Shiroorkar

21201B0012 – Shreyash Garud

Brief idea of project:

The Disease Prediction System is a web-based application utilizing machine learning to forecast disease outbreaks like dengue and malaria. By analyzing historical case data and real-time weather information, it predicts the likelihood of outbreaks in specific areas, aiding proactive resource allocation. Additionally, the platform provides educational resources on disease awareness, symptoms, and preventionstrategies, empowering communities to take preventive measures.

Screenshots of the Project:



Applications:

- Hospitals and clinics
- Community awareness
- Early warning systems

Program : Electronics and Telecommunication Engineering

Project Title : Vehicle Movement based Street Light Using PIC

Domain : AI and ML

Name of Project Guide : Er. Madhvi M

Name of Students: : 21201B0005 – Sairaj Dalvi

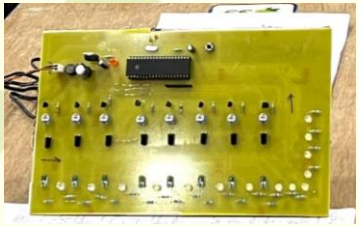
21201B0013 – Manav Mehta

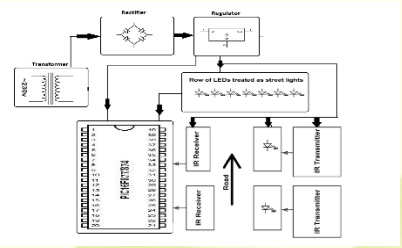
21201B0015 – Omkar Chavan

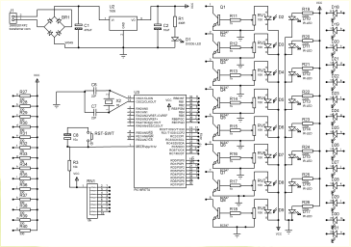
Brief idea of project:

The Vehicle Movement Based Street Lights Project aims to conserve energy by activating street lights only when vehicles are detected nearby, unlike the conventional system where lights remain on continuously. This is achieved through sensors detecting vehicle movement, signaling a microcontroller to adjust light intensity via PWM. The system offers two modes: one where lights are off until a vehicle approaches, and another where lights are at 10% intensity until movement is detected, then ramping up to 100%. Commands from a PIC controller manage the switching on and off of the lights based on sensor input.

Screenshots of the Project:







Applications:

- Traffic Management
- Parking System
- Smart City Integration

Program : Electronics and Telecommunication Engineering

Project Title : Density Based Traffic Light Control System

Domain : AI and ML

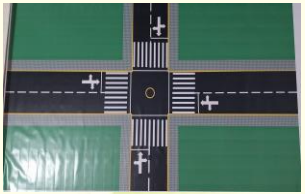
Name of Project Guide : Er. Arpit Bankar

Name of Students : 21201B0018 – Siberaja Nadar
21201B0016 – Adithya Jitesh
21201B0038 – Ayush Parate

Brief idea of project:

Utilizing advanced sensors and machine learning algorithms, our innovative traffic light control system dynamically adjusts signal timings based on real-time traffic density analysis. It also prioritizes the passage of emergency vehicles during critical situations. Additionally, our system features a comprehensive display system that disseminates essential information such as advertisements, weather updates, Air Quality Index (AQI) data, and real-time road conditions. Initial tests have demonstrated significant improvements in intersection performance and overall traffic management, highlighting the promising potential of this adaptive approach for urban traffic control.

Screenshots of the Project:



Applications:

- **In City's traffic control**

Final Year Project Committee
Program: Electronics and Telecommunication Engineering

	**Er. Anjum Mujawar** (CTO, Vidyalankar Polytechnic and HOD, Department of Electronics and Telecommunication Engineering)
	**Er. Apurva Wadekar** (Project Coordinator, Department of Electronics and Telecommunication Engineering)