**YASH SHARAD NIKAM**

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**EDUCATION**

***Thadomal Shahani Engineering College*** December 2021 **–** May2025

*Bachelor of Electronics Telecommunication Engineering*  C*GPA* ***8.5/10*** *(To Sem V)*

***Wilson College*** May 2019 – May 2021

*Higher Secondary Examination, Science Aggregate* ***84.33%***

***Academic Achievements:***

*Highest CGPA - 9.8 Semester VI, BETE*

**PROJECTS – Academic**

**Project Name: “*Cookies Cookbook App Using C#”***  Semester IV, August 2023

**Project Objective –**

* Application of C#, - to prepare an interactive cookbook to effectively manage user accounts, recipe data, and user requests
* Iimprovised user engagement and accessibility by integrating the application with ASP.NET to produce dynamic, approachable recipe page
* To guarantee seamless application performance, quick interactions, and an easy-to-use user interface, data storage and retrieval techniques were designed and put into place
* Performed integration with ASP.NET for dynamic, user-friendly recipe pages
* Program designed to manage data storage and retrieval, ensuring smooth performance and quick, responsive interactions between users and the application
* **Tools & Softwares –** Visual Studio, ASP.NET Core, Microsoft SQL Server, Git/GitHub for version control, Windows OS for development and deployment

**Project Name**: “***Bank List App, Web Development”*** Semester V,January 2023 – February 2023

**Project Objective**:

* Used the modular nature of React to guarantee smooth user interactions, maintainability, and effective design
* Developed using HTML and CSS for a clean, responsive interface to display bank details
* Incorporated Bootstrap to ensure the app is visually appealing on all screen sizes and devices
* Utilized JavaScript and React for dynamic features such as searching, sorting, and filtering bank data
* React supports a modular and efficient design, enhancing maintainability and user experience
* **Tools & Softwares –** Visual Studio Code, HTML, CSS, and JavaScript, React.js, Bootstrap, Git/GitHub for version control, Web Browser for testing and debugging

**Project Name**: “***Theft Detection with Camera, Machine Learning***” Semester IV, March 2022 – April 2023

**Project Objective**:

* Created a machine learning-based system that analyzes video feeds in real time to identify suspicious activity
* Effectively identified theft-related patterns and anomalies via retraining the machine learning model with a dataset of video footage.
* Utilized ML techniques to identify suspicious behaviours via camera feeds
* Trained the model on a dataset of video footage to recognize theft-related patterns
* Enabled real-time alerts based on live video stream analysis from the cameras
* **Tools & Softwares –** Python (for ML model development and implementation), OpenCV (for image and video processing), TensorFlow/Keras (for model training and inference), Jupyter Notebook/Google Colab (for development and testing), Git/GitHub for version control
* Project Lead with 4 team members

**Project Name: “*Innovative System for Dynamic Weighing of Trains”*** Semester V, August – November 2023

**Project Objective**:

* Created a unique real-time train weight measurement system that dynamically determines the weight of trains and individual bogies using ESP32 and load cells, guaranteeing safety by avoiding overloading
* Designed for real-time measurement of train weight, preventing overloading and improving safety
* Features - Automated alerts for overload detection and a user-friendly dashboard for real-time monitoring
* Utilized ESP32 and load cells to dynamically calculate the weight of trains & individual bogies
* Developed as part of a Smart India Hackathon problem statement, integrating hardware and software innovations.
* Includes automated alerts to enhance safety measures in case of overload detection
* Was Selected at SIH 2023-2024 ROUND 2
* **Tools & Softwares –** ESP32 Development Kit, Load cells and associated calibration tools, Arduino IDE (for programming the ESP32), Firebase (for data storage and retrieval), Python (for data processing and visualization), Dashboard design tools (e.g., Blynk or similar platforms), Git/GitHub for version control
* Project Lead with 5 team members

**PAPER PRESENTATION**

**Paper Title – “*Innovative System for Dynamic Weighing of Trains: Integration of Wireless Load Cell and Predictive Analytics” - Pre*sentation** - III International Conference on Advanced Communication and Intelligent, May 16-17, 2024, Jawaharlal Nehru University, New Delhi, India

**Paper Synopsis** –

* Wireless Load Cells with ESP Now: High-capacity load cells and ESP microcontrollers enable real-time wireless weighing of train carriages, that are incorporated directly into the rails  
  Machine Learning for Predictive Analytics: A regression model improves weight limitations for durability and safety using historical data.  
  A three-tier structure (ESP8266, ESP32, Raspberry Pi) digitizes, filters, and stores data, with a dash

**Supervisor** - Dr. Maniroja Edinburgh, Head of Department, Electronics and Telecommunication

**TECHNICAL SKILLS & CERTIFICATIONS**

**Expertise Areas**: Web Development, Full Stack Development

**Programming Languages**: Python, SǪL, C, C++.C#, Web development

**Operating Systems**: Windows, Linux

**Database Management**: MongoDB, MySQL

**Networking and System Design**: Firewalls, VM

**Tools and Frameworks**: ThingsWork, Things Speak, Kicad, Tinker

**Additional Skills**: Automation, Artificial Intelligence, Machine Learning, Git, C++ DSA

**Online Courses with Certifications (Technical)**:

* Ultimate C# Masterclass, Udemy, July 2023
* The Complete JavaScript Course, March 27,2024
* Understanding Typescript, Udemy, October 2024
* The Ultimate My Sql Bootcamp, November 2024
* 30 Hours Machine Learning, TSEC, Completion June 2023
* Foundation in Information Technology, DVOC, December 2022
* Complete IoT Guide, July 2022
* Full Stack Development, Udemy, August 2024

**EXTRACURRICULAR ACTIVITIES**

**Positions Of Responsibility**

**Chair Person, Electroverse.comm,** August 2023 - August 2024

**Responsibilities**:

* In-charge of assisting and leading all committee's initiatives - Hardware Hackathon 48 hours, Recruitment Drill, Paper presentation sessions
* Successfully organized and managed a 48-hour hardware hackathon
* Created opportunities for learning and interaction through workshops, seminars, and community events

**Personal Interests**

**College Cricket Team,** September 2022- **Ongoing**

Team Member

**Responsibilities**:

* Key role as a bowler, contributing significantly to the team's success
* Represented the college in intercollegiate tournaments
* Contributed to match strategies through effective bowling techniques