

Adarsh Kumar

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TECHNICAL SKILLS

C++, Java, HTML, CSS, MySQL, AWS, Git/GitHub, Docker, Power BI, Linux, Javascript, Matplotlib, NumPy, React

PROJECTS

MoneyLens | *React, Node.js, MongoDB*

Feb 2025 – Apr 2025

- Designed and developed a comprehensive MERN-based financial dashboard application enabling users to effortlessly track and manage their income, expenses, and savings in one unified interface.
- Implemented robust user authentication leveraging JWT and bcrypt.js, ensuring stringent data security and safeguarding sensitive financial records.
- Developed complete CRUD operations for transaction management and built a seamless CSV import utility, simplifying the incorporation of bank statement data.
- Created interactive, visually compelling analytics using the Recharts library, empowering users with actionable insights into their spending behaviors and long-term financial patterns.

A Synchronized Home Automation Framework | *Python, Raspberry Pi, IoT*

Jun 2024 – Nov 2024

- Developed an IoT-driven automation system leveraging ESP32, Raspberry Pi, and Blynk for real-time, Wi-Fi-based device management.
- Established a secure MQTT communication protocol with advanced error-handling to strengthen data reliability and system resilience.
- Implemented sensor-based automation, including PIR-enabled lighting, achieving 30% improvement in energy efficiency and resource usage.
- Architected a modular framework that enables seamless integration of heterogeneous smart devices, enhancing interoperability for both home automation and industrial IoT environments.

Sign Language Interpreter | *Python, CNN*

Mar 2024 – Apr 2024

- Developed a real-time sign language recognition system aimed at bridging communication gaps for individuals with hearing impairments.
- Led the team to come to the conclusion that the use of CNN model is the best mechanism to train the histogram model of hand.
- Collected a custom dataset by collaborating with over 25 volunteers, creating diverse and robust hand gesture histograms.
- Achieved 86 % model accuracy after iterative improvements in model architecture, hyperparameter tuning, and dataset augmentation.

EXTRA-CURRICULAR

- Volunteered at the Foragers Event, handling planning, logistics for 200 attendees, and on-site coordination with a 12-member team to ensure successful event execution.
- Participated in the inter-college cricket tournament and contributed to the team's performance, securing qualification for the semifinals.
- Achieved Runner-up position in the "Front-End Sprint" hackathon organized by the Android Club, conducted in a hybrid format.
- Served as Social Media Coordinator for VIT Bhopal Mozilla Firefox Club, leading content planning and managing outreach across digital platforms.

EDUCATION

VIT Bhopal University, Bhopal

2022 – 2026

B.Tech. in Computer Science and Engineering

CGPA: 7.54 / 10

Mother's Public School, Bhubaneswar

2021

CBSE Board – Class XII

Percentage: 83%

St. Xavier International School, Bhubaneswar

2019

CBSE Board – Class X

Percentage: 88.4%