

ADITYA VARMA

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📖 [Wokwi](#)

EDUCATION

Amrita Vishwa Vidyapeetham, Coimbatore

2023 – 2027

Computer and Communication Engineering - CGPA: 6.89

Devagiri CMI Public School, Kozhikode

2022 – 2023

Senior School Certificate Examination - Class XII - 85.2%

PROJECTS

Driver Fatigue Detection 🔗 | Python, TensorFlow, Scikit-learn

- Engineered a real-time system for detecting driver drowsiness by preprocessing EEG signals with noise filtering, feature extraction, and dimensionality reduction.
- Applied machine learning models including SVM, Random Forest, and k-NN, optimizing feature selection via PCA to enhance classification accuracy and reliability.

Inventory Management 🔗 | Python, MySQL, Tkinter

- Created an intuitive GUI-based system for managing employees, suppliers, products, and sales to streamline business operations.
- Implemented a MySQL database with real-time inventory tracking and interactive CRUD modules to optimize stock management.

Self-Financial Dashboard 🔗 | Python, Streamlit, PyTorch

- Developed a personal financial dashboard using Python, Streamlit, and PyTorch to automate monthly tracking of income and expenses, helping users manage their budgets efficiently.
- Implemented charts with PyTorch for visualizing spending patterns, making it easier for users to analyze financial habits and adjust future expenditures.

EXPERIENCE

PiServe, Kochi 🔗

May 2025 – Jun 2025

Project Intern

- Built a microservice using Flask for inventory management in an e-commerce platform, integrating database operations and RESTful APIs.
- Performed software testing using Tosca and Cypress to ensure functionality, reliability, and UI performance.

Intel IoT Club, Coimbatore 🔗

Jun 2024 – Present

IoT Engineer

- Developed IoT solutions using Arduino, Raspberry Pi, and ESP32 with real-time processing, cloud integration, and Wokwi-based simulations for pre-deployment testing.
- Mentored winning teams (e.g., Anokha Tech Fest) and led technical sessions on embedded systems and IoT protocols.

Wizycom Nurture, Kozhikode 🔗

Jun 2023 – Aug 2023

Content Intern

- Created high-impact educational content across blogs, articles, and social media, boosting digital engagement through SEO optimization and strategic planning
- Collaborated with teams to ensure content accuracy and relevance; developed skills in research writing, content strategy, and audience targeting

SKILLS

Programming Languages: Python, C/C++

Simulation Software: Wokwi, TinkerCAD, Logisim

Database Management: MySQL, PostgreSQL, PowerBI

Libraries: pandas, NumPy, Matplotlib, OS, scikit-learn, TensorFlow, Tkinter, Streamlit, PyTorch

Marketing Skills: Digital Marketing, Canva