Aravind GM

linkedin github portfolio

PROFESSIONAL SUMMARY

Confident student passionate about learning new skills. Ambitious and driven individual ready and willing to work hard and learn from professionals. Brings outstanding computer and communication skills. Solid academic achievement paired with demonstrated commitment and integrity.

TECHNICAL SKILLS

- **Web Development:** HTML, CSS, TailwindCSS, JavaScript / TypeScript, React, UI/UX Design
- **Programming Languages:** Python
- **Libraries/Frameworks:** Scikit-learn
- **Tools:** Git
- **Core Concepts:** Data Structures and Algorithms

WORK EXPERIENCE

Vedanta Limited- Software Developer

Facial Recognition Attendance System

FastAPI | Supabase | Python | Face Recognition | HTML/JS

Built a full facial-recognition–based attendance system using FastAPI and Supabase. Implemented secure APIs for face registration and real-time detection using OpenCV and the face_recognition library. Developed a responsive web interface to capture and upload images, enabling seamless interaction with backend services for accurate daily attendance tracking.

RESEARCH EXPERIENCE

SmartHive – Local Mesh-Based Home Automation System

Nov 2024 – Present

Built a cloud-independent smart home solution using Zigbee/Z-Wave protocols with a Raspberry Pi server.
Developed a private, low-latency mesh network for device control and automation.
Researched affordable alternatives to Zigbee/Z-Wave to scale solutions for Indian markets.

Cineplex - Movie Discovery and Recommendation Platform

Jan 2025 – Mar2025

:Cineplex

Role: Frontend Developer / Full-Stack Developer

Built a responsive web app for movie discovery with features like search, personalized recommendations, and watchlists.
Designed a sticky top navigation bar, sidebar navigation, and a hero section for enhanced user experience.
Integrated RESTful APIs to dynamically load popular movies and search results.
Implemented authentication to restrict access to personalized sections like "Your Space" and "Profile."
Optimized search functionality with a custom search bar and responsive design.
Used Bootstrap, Font Awesome, and custom CSS for styling and responsiveness.
Ensured scalability with reusable components like movie cards and pagination.
Technologies Used: HTML, CSS, JavaScript, Bootstrap, REST APIs

PROJECTS

SmartHive: Local Mesh-Based Home Automation

Nov 2024 – Present

Built a Zigbee/Z-Wave-based smart home system using Raspberry Pi as the core controller.
Created a private, cloud-independent mesh network for device automation and control.
Researched affordable alternatives to Zigbee/Z-Wave for cost-effective scalability in India.

Facial Recognition Attendance System

Mar 2025 – Present

Developed a facial recognition-based attendance system using React.js frontend and Supabase (PostgreSQL)

backend.
Enabled persistent user recognition without third-party ORMs like SQLAlchemy.
Focused on real-time tracking and accurate cross-day identification.

Fille-bot — TypeScript Automation Bot

Jan 2025 – Mar 2025

A TypeScript-powered automation bot designed for file-based operations—uploading, routing, and event-triggered actions. Includes additional JS/Python utilities. Focuses on reliable automation behavior and clean command structure.
Tech: TypeScript, JavaScript, Python

Cineplex – Movie Discovery and Recommendation Platform

Oct 2024 – Dec 2024

Built a responsive movie discovery app with dynamic search, genre filtering, and user watchlists.
Used HTML, CSS, JavaScript, Bootstrap, and REST APIs for real-time data display.
Integrated authentication, reusable components, and ensured cross-browser support.

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face — Facial Analysis Experiments & Demos

NOV 2025 – NOV 2025

A mixed collection of notebooks and small web demos exploring facial recognition and analysis. Combines Python-based experimentation (Jupyter notebooks) with HTML/JS visualization tools to demonstrate model outputs interactively.
Tech: Python (ML/CV), HTML/JS

AI-Driven Supply Chain & Fraud Detection System

Apr2025 – Apr 2025

Built a full-stack web application using Next.js and FastAPI to optimize supply chain operations and detect fraud.
Implemented SARIMA and Isolation Forest models for demand forecasting and anomaly detection.
Designed interactive dashboards with Recharts for real-time data visualization.
Achieved 98% fraud detection accuracy and improved inventory efficiency by 20%.
Tech Stack: Next.js, React, Tailwind CSS, FastAPI, Python, Recharts, TypeScript, PostCSS.

EDUCATION

Jain University *2023 - Present*

- **Bachelor of Technology in Computer Science and Engineering – AIML**
- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Deep Learning, Graph Theory
- **CGPA:** 7.2/10

CERTIFICATIONS

- Introduction to HTML5 - University of Michigan
- Introduction to CSS3 - University of Michigan
- Programming with JavaScript - Meta

EXTRACURRICULARS

Finalist – Code Relay, Jain University (2nd Place)
• Built an AI-driven supply chain and fraud detection system achieving **98% accuracy**.
• Developed an end-to-end full-stack solution using **Next.js, FastAPI, Python, and PostgreSQL**.
• Designed real-time dashboards and anomaly detection workflows, improving inventory efficiency by 20%.

Hackathons – Jain University & KPR University
• Participated in **3 major hackathons** (2 at Jain University, 1 at KPR University).
• Reached **finalist round once** , demonstrating strong problem-solving, teamwork, and rapid prototyping.
• Built projects ranging from **AI automation tools** to **real-time data applications** and **full-stack web platforms**.
• Recognized for **innovation**, UI clarity, and the ability to deliver polished demos under tight deadlines.