Midhun G Kaimal

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Profile

Final-year B.Tech Computer Science and Engineering student with hands-on experience in projects related to Python, web development, and basic AI/ML. Comfortable working with tools like Flask, OpenCV. Interested in building useful software that creates a positive impact in areas like healthcare and public safety. Actively involved in IEEE activities with experience in team collaboration, communication, and taking initiative. Eager to grow in software development and AI roles.

Education

Sahrdaya College of Engineering and Technology   **Thrissur, Kerala**
B.Tech in Computer Science and Engineering   *2022 – 2026*

Skills

Languages:	C, Python, Java
Web Technologies:	HTML, CSS
Frameworks:	Flask
Database:	MySQL
Tools & Libraries:	Git, OpenCV
Soft Skills:	Leadership, Communication, Teamwork,

Projects

Intolerant AI – Allergy Detection from Gel Electrophoresis Images
Developed an AI-powered model using **Machine Learning, Image Processing, and Deep Learning** techniques to analyze **gel electrophoresis images** for allergen detection in food samples. Implemented **real-time monitoring** for image extraction and allergen classification. This project utilized **Python, OpenCV,** for **classification** tasks, contributing to **AI in Healthcare**.

ThriftyEats – Food Waste Reduction Platform
Designed and developed a **full-stack web application** to connect restaurants with **NGOs** for the donation of leftover food. Features include **real-time food tracking**, **alerts**, and a **volunteer coordination dashboard**. The project utilized **Python, Tkinter,MySQL** for efficient **CRUD operations** and seamless user interaction, addressing **food waste management and NGO coordination**.

HealTrip – Mental Wellness Travel Web App
Developed a service-based platform using **Flask** and **SQLite** that connects individuals seeking mental wellness with travel opportunities. Implemented **user authentication**, **session handling**, and **dynamic content rendering**. The platform emphasizes social impact through mental health awareness while integrating core principles of **web development**, **form handling**, and **user experience design**.

Detectly – AI-Based Missing Person Detection
Developed a **deep learning model** with **OpenCV** for identifying missing individuals from **CCTV surveillance footage**. The project integrated **real-time dashboards** to assist law enforcement agencies in tracking and identifying individuals. Utilized **Python, OpenCV, and deep learning algorithms** for **object detection** and real-time alerting systems, providing an **AI-driven solution to public safety**.

Certifications

Intel AI Certification: Intel Corporation – 2024

Prompt Engineering Essentials: Google Cloud Skills Boost – 2025

Experience

May 2025 – Present: **Membership Development Coordinator**, IEEE EMBS Kochi Subsection

Leading membership engagement initiatives, coordinating with student branches, and organizing outreach events to grow IEEE EMBS presence across the Kochi Subsection..

Awards & Recognition

- IEEE IES SYP Congress 2024 – Travel Grant Recipient
- Winner – TechX Infinia Hackathon (IEEE Sahrdaya SB)
- Mini Project Prize Winner – ThriftyEats, Sahrdaya CSE Department