

Midhun G Kaimal

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Profile

"Final-year B. Tech Computer Science and Engineering student with experience in data analysis, software development, and process optimization. Active IEEE member with strong communication, collaboration, and documentation skills. Eager to contribute to impactful projects and grow in a dynamic, innovation-driven environment."

Education

2022 – 2026 **B.Tech in Computer Science and Engineering**, *Sahrdaya College of Engineering and Technology*
CGPA :8.18(Till date)

Higher secondary education, *Carmel Hss*
98.7%

Skills

Languages Python, Java	Web Technologies HTML, CSS	Frameworks Flask
Database MySQL	Tools & Libraries Git, OpenCV	Soft Skills Initiative-driven, Clear communicator, Collaborative mindset

Projects

- Intolerant AI – Allergy Detection from Gel Electrophoresis Images**
Developed an AI-powered model using machine learning, image processing, and deep learning to analyze gel electrophoresis images for allergen detection in food samples. Implemented real-time monitoring for image extraction and classification using Python and OpenCV, achieving over 85% accuracy across a dataset of 500+ images. Improved detection speed and reliability, enhancing food safety analysis.
- ThriftyEats - Food Waste Reduction Platform**
Designed and developed a full-stack web application using Python, Tkinter, and MySQL to connect restaurants with NGOs for leftover food donation. Enabled efficient CRUD operations and intuitive user interaction, facilitating coordination between 10+ restaurants and NGOs. The platform streamlined food donation workflows and reduced potential food waste.
- HealTrip - Mental Wellness Travel Web App**
Built a service-based platform using Flask and SQLite to connect individuals seeking mental wellness with curated travel opportunities. Implemented user authentication, session management, and dynamic content rendering.

Leadership Experience

05/2025 – Present **Membership Development Coordinator**, *IEEE EMBS Kochi Subsection*
Recently appointed to lead membership growth and engagement strategies across the IEEE EMBS Kochi Subsection, representing over 3+ student branches. Initiated planning of targeted outreach campaigns aimed at increasing student membership and strengthening inter-branch collaboration. Currently laying the foundation for measurable growth through strategic planning and stakeholder coordination.

Certifications

Intel AI Certification Intel Corporation - 2024	Prompt Engineering Essentials Google	Google AI Essentials Google
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Awards & Recognition

IEEE IES SYP Congress 2024 - Travel Grant Recipient

Winner - TechX Infinia Hackathon (IEEE Sahrdaya SB)