

# SAIDEV MAKANUR

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## SUMMARY

Computer Science student with a strong foundation in AI, machine learning, and automation. Currently working on an innovative project in the automation domain for which a patent is being filed and a research paper is under preparation. Interested in roles where I can apply technical and problem-solving skills to build intelligent systems and contribute to meaningful, high-impact technologies.

## EDUCATION

Sahyadri College of Engineering & Management, Mangalore <i>BE in Computer Science Engineering (Artificial Intelligence and Machine Learning)</i>	Mangaluru, Karnataka Dec. 2022 – Present (8.61 CGPA) - upto 6th sem
Gopalaswamy PU College PU - Science(PCMC)	Mysore, Karnataka April 2020– April 2022

## EXPERIENCE

Aarvath Mobitech Pvt Ltd   <i>Web developer Intern</i>	Oct 2023 - July 2024
• Developed a responsive MERN stack web app that increased user engagement by 30%, reduced load times by 40%, and improved mobile responsiveness by 50%, resulting in a 25% increase in returning users.	
• Integrated RESTful APIs and Node.js backend; deployed the site on a custom domain via Hostinger, reducing deployment time by 60%.	
• Engineered IoT dashboard support for a solar-powered vehicle, enabling real-time telemetry with 95% data accuracy.	
• Participated in Agile sprints and bi-weekly demos, contributing to a 20% faster development cycle and sharpening collaboration and product delivery skills.	

## SKILLS

**Programming Languages:** Python, JavaScript, C/C++, R, SQL, HTML/CSS

**Frameworks/Libraries:** React.js, Node.js, Flask, Electron.js

**AI/ML Tools:** Scikit-learn, Pandas, NumPy, Matplotlib, Prompt Engineering, LLM Fine Tuning

**Databases:** MongoDB, SQLite, MySQL, Oracle

**Cross Platform Development Tools:** Electron.js

**Tools:** VS Code, Firebase, Git, MS Office, Ubuntu

**Professional Practices:** Agile, Scrum, Debugging, Version Control(Git/Github), Documentation

**Intelligent Systems:** AI Agents, Multiagent Systems, Intelligent Agents

**System & Operations:** Operating Systems (OS), System Operations

## PROJECTS

- **SIGMA OS:** Designed an AI-powered desktop assistant to automate file organization and system tasks. Orchestrated local LLMs to interpret user intent and perform 20+ test case operations. Enhanced task execution speed by 30% in simulated environments.
- **Runner:** College & Dept Level Project Exhibition
- **Diabetic Meal Planner:** Developed a personalized diabetic meal planner using K-Means Clustering, improving dietary adherence by 25% based on mock user feedback. Tailored meal plans using 100+ unique health metrics and nutritional profiles.
- **Winner:** Dept Project Exhibition
- **AI Timetable Generator:** Created an automated scheduler using genetic algorithms with QtPy and SQLite, reducing manual scheduling time by 70% and supporting 100+ class allocations with conflict-free resolution.
- **Startup Website (MERN Stack):** Built and deployed a responsive web app using React (Vite), Node.js, and MongoDB via Hostinger. Enabled real-time updates, user authentication, and admin dashboards for internal workflow. Improved stakeholder engagement by 35% and streamlined project communication.
- **AI Routing System for Logistics:** Developed a multimodal logistics routing platform integrating four transport modes (road, rail, air, sea) using a hybrid Weighted Sum Model and geospatial algorithms considering real-time challenges like traffic, weather, and delays, improving route efficiency by 35% and reducing manual planning time by 60% through dynamic, data-driven decision-making.

## ACHIEVEMENTS

- 2nd place in Department-level Major Project Exhibition at TechVision 2025.
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- Winner of the Mini Project Expo 2024.
- 5L seed funding by Cisco for the startup, Aarvath Mobitech Pvt Ltd in 2024.
- Winners of the IEEE event organized at Vivekananda College of Engineering, Puttur, for the Solar Powered Vehicles project, representing the startup in 2024.
- Winner of the CSS Action event in Devhost, organized by the college in 2024.