

ADITHYA YERRABOTHU

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AI/ML and full-stack developer who ships production-grade web and mobile applications with clean architecture and strong UX. Experienced across React/TypeScript, Node/Express, REST APIs, authentication, SQL, and cloud deployments. Builds ML-driven features for automation, personalization, and smarter decision flows—grounded in data quality and reproducible pipelines. Also integrates hardware/IoT (ESP32, Raspberry Pi, sensors/actuators) when the product needs edge data, real-time control, or connected workflows. Strong in rapid prototyping, debugging, and converting problem statements into reliable, measurable outcomes.

PROJECTS

LifeBand MAA
Startup | AI + HealthTech

Nov 2025 — Present

- AI-powered maternal health product focused on continuous monitoring and early risk prediction.
- Designed around real-time alerts and data-driven guidance to improve maternal outcomes.

ECE Portal
Full-Stack Web Platform

Jun 2025 — Sept 2025

- Built a complete academic management portal: attendance, marks, timetables, notices, and real-time communication.
- Implemented role-based access for Admin/Faculty/Students with scalable API design and clean UI.
- Deployed as a production-ready application. [Project Link](#)

Aravind Eye Care eLogbook App
Mobile App | Supabase + Auth + Analytics

02 Jan 2026 — 05 Jan 2026

- Developed a clinical eLogbook application for ophthalmology workflows: structured case entry, reviews, and analytics.
- Implemented secure authentication, role-based access (Residents/Fellows/Consultants/Reviewers), and searchable records.
- Designed for compliance-ready data capture with cloud storage and structured forms.

MosquitoShield
AI + Drones | Public Health

Dec 2025 — Present

- Designed an autonomous workflow to detect mosquito breeding hotspots using mapping + geotagged evidence.
- Created a dashboard-driven loop to track hotspots, interventions, and outcomes for repeatable operations.

Color Tracking Robot
Computer Vision & Robotics (Raspberry Pi)

Dec 2024 — Jan 2025

- Built a Raspberry Pi vision robot that detects and tracks a target color (yellow) in real time using OpenCV HSV filtering.
- Autonomous motion control to keep the target centered; stops when the object is within the center zone.
- Built using Python, OpenCV, Picamera2, and GPIO-controlled motors.

EDUCATION

**Rajiv Gandhi University Of Knowledge Technologies
RK Valley**
Bachelor of Technology in Electronics & Communications
Expected: 2027 | Kadapa, AP
CGPA: 7.6 / 10.0

SKILLS

Full-Stack Development
React, TypeScript, Node.js, Express REST APIs, JWT Auth, SQL

Mobile App Development
Flutter / React Native (as applicable)
API integration, auth, storage

AI / ML
Dataset preparation, feature engineering basics
Applied ML for intelligent automation

Hardware & Integration
ESP8266/ESP32, Arduino, Raspberry Pi
Sensors/actuators, IoT integration

ACHIEVEMENTS

Hack The Flame Winner
Won 1st Place at a National-Level Hackathon in Mumbai, conducted by Ignite Rooms; recognized for innovation and end-to-end execution.

Techzite 2.0 IoT & Robotics Hackathon Winner
Won 1st Place at TECHZITE 2.0 in Nuzvid, competing against teams from multiple colleges; recognized for high-impact innovation.

Everest Engineering Hackathon
Placed in the Top 10 among 100+ teams; gained strong hands-on learning through rapid prototyping and iterative problem-solving.