

ADHIL KUMAR

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PROFESSIONAL SUMMARY

Passionate engineer with a strong foundation in programming, embedded development, and real-world problem-solving. Skilled in designing practical solutions, building functional prototypes, and rapidly learning new technologies.

TECHNICAL SKILLS

- ROS 2
- Machine Learning
- Python
- Scikit-learn
- Data Preprocessing
- Basic Computer Vision
- Microcontrollers Programming
- C++

SOFT SKILLS

- Problem Solving
- Adaptability

EDUCATION

Diploma in Ai and Robotics
I-Hub school of learning, Kochi, Kerala
Higher secondary
Computer Science

PROJECT

• ESP32-CAM WiFi Fire-Fighting RC Robot

Tech: ESP32-CAM, Arduino, C++, HTML/CSS, Python

- Developed a WiFi-controlled robot with real-time video streaming for remote fire detection.
- Implemented flame-sensor-based directional control with automatic and manual override modes.
- Built a custom web interface enabling low-latency control and live monitoring.
- Integrated sensor data processing and motor actuation for responsive navigation.

• Car Recommendation System

Tech: Flask, Python, Pandas, HTML/CSS

- Created a data-driven recommendation engine for filtering and ranking vehicles using price, mileage, fuel type, and transmission.
- Implemented preprocessing pipelines, dynamic filtering, and a responsive UI.
- Designed backend logic enabling fast queries and an intuitive user experience.

• Doctor Appointment Booking System

Tech: Streamlit, Python, Pandas

- Built a full-featured appointment booking platform with user and admin dashboards.
- Added secure login, automated schedule management, and real-time data updates.
- Improved booking workflow using clean UI design and fast data handling.