

Rohith A

Electronics and Communication Engineering



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Summary

Final-year Electronics and Communication Engineering student skilled in Embedded Systems, IoT, and Machine Learning. Built intelligent systems using ESP32, REST APIs, and TensorFlow. Proficient in hardware-software integration with LTSpice, Arduino IDE, and VS Code.

Education

Degree	Institute	Board/University	CGPA/Percentage	Year
B. Tech ECE	NSS College of Engineering	APJKTU	8.39(Till 5 th sem)	2022-2026
Class 12 th	PMG HSS Palakkad	Kerala State Board	98%	2021
Class 10 th	Bharathamatha HSS Palakkad	Kerala State Board	95%	2019

Work Experience

Internship Apr 2025 - May 2025
Edunet Foundation / Remote
In a Foundations of AI internship, I mastered AI/ML/DL fundamentals—data preprocessing, exploratory analysis, supervised/unsupervised learning, tuning, and evaluation—and applied them in a capstone project by ingesting data and deploying ML models via a Flask API.

Projects

Book Vending Machine Feb 2025 - Apr 2025
Mini project
Developed a smart book vending system with an ESP32 microcontroller, a stepper- motor driven cylindrical book holder (MG996R) and a servo-powered dispensing arm (MG90S), integrated RFID (RC522) for user authentication, and Firebase-backed web dashboard for live monitoring of book issues and returns.

LaptopFinder Pro – ML-Driven Laptop Recommendation System Apr 2025 - May 2025
Activity project
Built an end-to-end recommender using Python and BeautifulSoup to scrape Amazon/Flipkart, MongoDB Atlas for storage, scikit-learn KMeans and PCA for use-case clustering, and a Flask API powering a dynamic JavaScript frontend displaying images, links, specs, and short descriptions.

Core Skills

Embedded Systems & IoT: ESP32, ESP8266, Arduino IDE, Sensor Integration
Programming: Python, C/C++
Cloud & API Integration: MongoDB Atlas, Firebase, REST API, Postman
Tools & Platforms: MongoDB Compass, VS Code, GitHub, Proteus
Machine Learning: Foundational Concepts, Data Processing, Problem-Solving, Debugging, Rapid Prototyping, Collaborative Learning

Community Work

Volunteer May 2023 - Present
National Service Scheme

Certificates

Programming, Data Structures and Algorithms using Python, NPTEL

Mar 2024

Machine Learning with Python, freeCodeCamp

Jan 2025

Interests

Machine Learning & Data Engineering, Real-Time Systems & Embedded Computing