

# Rekha Ruthika

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## ABOUT

## PORTFOLIO

Fervent Electronics and Communication Engineering (ECE) student in the pre-final year at KL University, Hyderabad, specializing in **Embedded Systems**. Possesses a strong interest in electronics, communication systems, programming, and **artificial intelligence**, with a focus on integrating AI into embedded solutions to enhance functionality and efficiency. Dedicated to continuous learning, innovation, and contributing to impactful projects that bridge academic knowledge with real-world applications.

## EDUCATION

<b>B.Tech, Electronics and Communication Engineering</b>	Expected 2027 - CGPA: <b>9.86</b>
KL University Hyderabad	
<b>Intermediate (MPC)</b>	2023 - <b>CGPA: 9.8</b>
Gayathri Junior College	
<b>High School</b>	2021 - <b>CGPA: 10.0</b>
Sri Narayana High School	

## PROJECTS

<b>ESP32-Based Robotic Arm and Car for Remote Assistance :</b>	<a href="#">GitHub</a>
Developed a web-controlled robotic arm and vehicle system for remote operations in agriculture, delivery, and 3D printing. Currently extending the project to an AI-enabled rover for automated crop detection and harvesting.	
<b>Smart Traffic Management using Edge AI (Ongoing) :</b>	<a href="#">GitHub</a>
Developing an intelligent traffic monitoring system using Edge AI for real-time vehicle detection and adaptive signal control. Aims to deploy optimized CNN models on edge devices to minimize latency and improve traffic flow efficiency.	
<b>Gesture-Based UI System :</b>	<a href="#">GitHub</a>
Built a real-time gesture-driven interface enabling touchless interaction with digital systems. Focused on low-latency execution and efficient signal interpretation for smooth user experience.	
<b>Code Launch – Online Foundation Program Platform :</b>	<a href="#">GitHub</a>
Code Launch is an online foundation program website built using Next.js and Firebase to help Intermediate students transition into BTech/BCA. It provides beginner-friendly modules on programming, OOPS, AI basics, and Power BI with structured learning and authentication support.	

## SKILLS

<b>Programming Languages -</b>	C, Java, Python
<b>Data Structures -</b>	DSA and Algorithms
<b>Operating Systems -</b>	Process, Memory, Scheduling Concepts
<b>Artificial Intelligence -</b>	Machine Learning Basics
<b>Web -</b>	Next.js, Firebase,
<b>Embedded Systems -</b>	STM32 (CubeIDE), MSP430, ESP32, Arduino, Embedded C

## ACHIEVEMENTS

- Secured **1 Lakh funding** from TiHAN, IIT Hyderabad for Edge AI Traffic Management system.
- Winner – INNOV-A-TECH** Hackathon (Sensors Track).
- Tech Co-Lead** –Organized technical events.
- Peer Mentor** for 2nd year students and **Student Placement Coordinator**.
- AWS Cloud Practitioner (CLF-C02).