

# KRISHNAVENI POLA

Student

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## ABOUT ME

I am a 3rd-year Electronics and Communication Engineering student with a strong passion for leveraging technology to address real-world challenges. My expertise spans app development, IoT, and embedded systems, demonstrated through innovative projects like robotic systems and AI-driven solutions.

Beyond academics, I am a proactive learner and an effective organizer, having successfully coordinated technical events and contributed to team-based initiatives such as the Drone Club. With a strategic mindset and hands-on experience, I aim to apply my technical knowledge and problem-solving skills to create impactful solutions that drive innovation.

## EDUCATION

- B.Tech in Electronics & Communication Engineering | KL University | 2023 – 2027 | **CGPA: 9.98**
- Intermediate (MPC) | Gatik Junior College | 2021 – 2023 | CGPA: 9.74
- High School (CBSE) | VRS & VJRS | 2021 | CGPA: 9.32

## PROJECTS

- Line Following Robot | MSP430, IR Sensors, Energia IDE**  
Developed an autonomous robot that follows a predefined path using IR sensors.  
Designed and implemented real-time tracking logic for precise navigation.
- Flappy Bird Game using ESP32 | C++, Embedded Systems**  
Created a hardware-based Flappy bird game using ESP32 and an OLED screen.  
Implemented sensor-based controls to improve interaction.
- Crop Yield Prediction | Random Forest, AIML**  
This project predicts crop yield based on factors like rainfall and fertilizer.  
It helps farmers make data-driven decisions for better agricultural productivity.
- ESP32-Based Robotic Arm and Car | Web Server | [Github](#)**  
Developed a two-wheeled robotic car integrated with a pick-and-place robotic arm.  
Implemented real-time control (web server) for remote operation.

## SKILLS

- Programming Languages: C, Java, Python
- Software & Tools: Flutter, Proteus, Matlab, Cadence, LTspice
- Embedded & IoT: PCB Design, ESP32, MSP430, Arduino, STM32
- Machine Learning & AI: Data Visualization, Pandas, NumPy

## ACHIEVEMENTS

- TECH Lead** for a major techno-cultural event, managing planning and execution.
- AWS Certified Cloud Practitioner** – Amazon Web Services (AWS)
- Data Structures** in Java Certification.
- Peer mentor** for 2nd year students.
- Winner** of INNOV-A-TECH **Hackathon** – Secured 1st place in the Sensors track.
- Elite Silver NPTEL** certificate in Computer Networks and Internet protocol.