

# Gayatri Machavaram

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## CAREER OBJECTIVE

I am a motivated and detail-oriented Electronics and Communication Engineering graduate with foundational skills in Python, HTML, CSS, and SQL. Now working as Quality Executive at Tata Electronics in quality inspection, process monitoring, and defect analysis. Seeking opportunities to contribute to organizational quality improvement and professional growth.

## TECHNICAL SKILLS

**Programming Languages:** Basics of Python

**Web Development:** HTML, CSS

**Databases:** SQL

## PROJECTS

### 1. RFID Based Attendance System Through IOT

2024

- Developed an IoT-based RFID attendance system that automates student/employee attendance tracking using RFID tags and cloud-based data storage.
- Implemented real-time monitoring and data logging, enhancing accuracy and efficiency while reducing manual errors in attendance management.
- The RFID-based attendance system successfully automated tracking and data management, ensuring accuracy and efficiency. By integrating IoT and cloud storage, it minimized manual effort, improved real-time monitoring, and enhanced the reliability of attendance management.

- Technologies Used:**

**Hardware** - Microcontroller, RFID reader, LCD Display

**Software** - DBMS, Arduino IDE

### 2. Design and Development of Solar Panel Cleaning Robot

2025

- Designed an automated solar panel cleaning robot with wiper-based cleaning technology, ensuring efficient dust and debris removal to enhance solar energy output.
- Implemented motorized wipers and sensor-driven automation, reducing manual maintenance while optimizing solar panel performance.

- Technologies Used:**

**Hardware** - Actuators, Sensors, Microcontrollers & Processors

**Software** - Python, Arduino IDE Software

## INTERNSHIPS

### Skill Dzire | VLSI

2024

- Gained hands-on experience in VLSI (Very Large Scale Integration) design and verification, focusing on digital and analog circuits. Worked on HDL programming (Verilog/VHDL) for circuit design and simulation. The internship offered practical exposure to advanced chip design and verification techniques. It enhanced technical proficiency in hardware description languages, circuit optimization, and semiconductor development, preparing for real-world engineering challenges in the VLSI domain.

## **WORK EXPERIENCE**

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### **Tata Electronics Pvt Ltd Quality Executive**

**Nov 2025 - Present**

- Conducted quality inspections on incoming, in-process, and finished product
- Identified and documented defects and non-conformities
- Supported root cause analysis and corrective actions
- Maintained quality records, reports, and documentation
- Coordinated with production teams to ensure quality compliance
- Followed SOPs, safety guidelines, and quality standards Quality Executive

### **KEY SKILL**

- Quality Inspection, Defect Analysis, Documentation, SOP Compliance, CAPA Support, MS Excel, MS Word, and Teamwork.

## **EDUCATION**

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### **Vignan's Nirula Institute of Technology and science for women**

**2021 - 2025**

- BTech | Electronics and Communications
- CGPA: 7.5

### **Sri Chaitanya junior college**

**2019 - 2021**

- Intermediate | MPC
- GPA: 89.5

### **Sri Chaitanya School**

**2019**

- SSC
- CGPA: 9.5

## **SOFTSKILLS**

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- Good at Communication skills
- Time Management
- Creativity
- Quick and Enthusiastic to learn adoptable to my domain

## **CERTIFICATIONS**

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- Workshop on “PCB design”
- Course completion on “PROGRAMMING FUNDAMENTALS USING PYTHON” by INFOSYS
- Course completion on “OOPS” by INFOSYS
- Successfully completed certificate in NPTEL on “PROGRAMMING IN JAVA”

**PLACE: HOSUR**

**(GAYATRI MACHAVARAM)**