# SINGAMALA RAKSHITHA

Tirupati, Andhra Pradesh

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## Objective

As a fresher, seeking a competitive and challenging environment where I can serve your organization and establish a career for myself.

## Education

**Saveetha Engineering College, Chennai**                                         **2022–2026**
*B.E – Electronics and Communication Engineering*                                 *CGPA: 8.0*

**Sri Chaitanya Junior College, Tirupati**                                        **2020–2022**
*Intermediate*                                                                    *CGPA: 8.9*

**ZP High School, KVB Puram**                                                     **2019–2020**
*Class X*                                                                         *CGPA: 9.7*

## Work Experience

**Adventure Technology Solutions Pvt. Ltd.**                         **June 2024 – July 2024**
*Software Engineering Intern*                                              *Tambaram, Chennai*

- Developed Python-based applications for processing sensor data and automation.
- Built RESTful APIs and WebSocket services for IoT data exchange.
- Developed firmware using C, Python, and Embedded C for sensor interfacing and data processing.
- Created dashboard applications for real-time sensor visualization using Grafana and Power BI.

## Project

**Crime Detection Using Machine Learning** | *Python, Windows 11, Jupyter Notebook*        **October 2023**

- Developed a crime detection system using MobileNetV2 architecture trained on surveillance video datasets.
- Automated detection of criminal and non-criminal activities for real-time monitoring.
- Integrated a Telegram bot alert system to notify authorities immediately upon crime detection.
- Enhanced public safety through AI-based automated surveillance solutions.

## Certificates

- Internship Certificate on Internet of Things
- NPTEL Certification (Cloud Computing)
- Certificate on Data Visualization with Python
- Certificate on Basic Electronic Devices and Components

## Skills

- **Languages:** C, Python
- **Developer Tools:** VS Code, Eclipse, PyCharm
- **Technologies/Frameworks:** GitHub, Xilinx, MATLAB, LTspice, Scilab
- **Soft Skills:** Time Management, Communication Skills