Atchayaa I

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EDUCATION

Sri Sai Ram Institute of Technology   May 2025
Electronics and Communication Engineering | CGPA: 8.34

Ramakrishna Mission Vidyalaya Matric. Hr. Sec. School   May 2021
Higher Secondary Education | Percentage: 87.12

Ramakrishna Mission Vidyalaya Matric. Hr. Sec. School   Mar 2019
Secondary Education | Percentage: 88.4

SKILLS

Programming Languages: Java (Intermediate), C (Intermediate), HTML, CSS
Tools: Git, Visual Studio Code
Database Management: SQL (Basics)
Behaviourial Skills: Time Management, Adaptability, Problem-Solving

EXPERIENCE

Woory Automotive India Private Limited   June 2024
Intern
- Gained hands-on experience with SMT (Surface Mount Technology) and PCB design processes and supported the design and review of circuit layouts, enhancing understanding of hardware-software interfacing in real-time automotive systems.
- Collaborated with engineers on the production floor to troubleshoot common PCB issues, learning practical applications of quality control and testing methods in electronics manufacturing.

Cisco Virtual Internship Program 2023   May 2023
Networking Intern
- Designed and implemented a simulated **Campus Network Project** using Cisco Packet Tracer, demonstrating concepts like subnetting, VLAN configuration, inter-VLAN routing, and switch/router setup.
- Completed structured modules on networking fundamentals, cybersecurity, and network automation aligned with Cisco Networking Academy standards.
- Built and tested network topologies to reinforce real-world skills in IP addressing, dynamic routing protocols (RIP, OSPF), and LAN/WAN connectivity.
- Gained practical insight into OSI model layers, TCP/IP protocols, and network troubleshooting through interactive labs and assessments.

PROJECT

Safe Handling and Disposal of Biomedical Waste   Mar 2023 - May 2025
Patent Application Published: "BIOBIN for safe handling and disposal of biomedical waste"
Application No: 202441104299
- Led a 3-member team in designing and developing BIOBIN, an autonomous robotic system that safely segregates biomedical waste using deep learning and embedded systems.
- Implemented real-time object detection with YOLOv8 on Raspberry Pi and coordinated hardware integration with Arduino-controlled robotic arm and sensors for precise pick-and-place operations.
- Oversaw end-to-end development including system architecture, hardware-software interfacing, and obstacle-avoidance using ultrasonic sensors on a mobile robotic base.

CERTIFICATIONS

- **Spoken Tutorial by IIT Bombay**: Java, HTML
- **NPTEL**: Deep Learning *(Elite)* , Computer networks & Internet Protocol *(Elite + Silver)*

VOLUNTEERING

- *Joint Secretary* for Praestantia, the department symposium of Electronics and Communication Engineering .
- *Treasurer* for IEEE Photonics Society and IEEE Women in Engineering.
- *Vice-Chair* of the IEEE Photonics Society, contributing to the planning and execution of technical events and workshops