

Pavithira P

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Objective

Motivated Electronics and Communication Engineering student seeking opportunities to apply academic knowledge and technical skills in innovative projects. Eager to contribute to a dynamic team while gaining practical experience in the field.

Education

Bachelor of Engineering, Electronics and Communication

Hindusthan Institute of Technology, Coimbatore

CGPA: 8.36/10.00 (up to current semester)

Relevant Coursework: Digital Electronics, Microprocessors, Embedded Systems, Signal Processing, Communication Systems

Technical Skills

- **Programming Languages:** C, C++, Python, Java
- **Tools and Platforms:** MATLAB, Keil uVision, Xilinx Vivado, Proteus, Arduino
- **Hardware:** Microcontrollers (8051, ARM), FPGA, PCB Design
- **Concepts:** Analog and Digital Circuits, Embedded Systems, Wireless Communication, IoT

Projects

Smart Routine Shedular(offline AI assistant)

Developed an Offline AI-powered assistant that intelligently schedules daily routines and tasks based on user preferences, deadlines, and time constraints.

Implemented voice-based input for natural interaction using local speech recognition libraries.

Designed a smart scheduling algorithm to handle task conflicts and optimize time slots.

Technologies: Python, SQLite, Tkinter(or PyQt), Speech Recognition, Vosk, Offline TTS

Smart Environment monitering and alert system

Designed and developed an Arduino-based smart monitoring system that integrates multiple sensors(LM35, LDR, PIR) to track environmental conditions and respond Intelligently through LED and buzzer alerts

Technologies: Arduino, C/C++, LM35, LDR, PIR Sensor, Buzzer, LED, Serial Communication

Achievements and Certifications

- Completed certification in "Embedded Systems " from Login TechBridge, 2024.
- Certified in “Advanced Technology for Smartphone servicing and Troubleshooting” from New Technology Institution, 2025
- Certified in "Basics of Python" from Infosys springboard, 2025.

Extracurricular Activities

- Member of National service scheme in my college.
- Participated in many dance competition in my college
- Volunteer, Annual Tech Fest, coordinated events and managed logistics.

Soft Skills

- Teamwork and Collaboration
- Problem-Solving and Analytical Thinking
- Effective Communication
- Time Management

Declaration

I hereby declare that all the information provided above is true to the best of my knowledge.

Pavithira P
July 12, 2025