Priya Verma

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Education

VIT Bhopal University — **Bhopal, Madhya Pradesh**
BTech ECE (AI and Cybernetics) — Expected June 2026
Cumulative GPA: 8.87/10

12th Standard
Govt. Girls Higher Secondary school — **Jaithari, Madhya Pradesh**
MPBSE — Cumulative percentage: 92.6% — May 2022

10th Standard
Govt. Girls Higher Secondary school — **Jaithari, Madhya Pradesh**
MPBSE — Cumulative percentage: 96% — May 2020

Technical Skills and Tools

C++, Embedded System, Embedded C/C++, IoT, Arduino.

Projects

Sign Language to speech conversion System — **Feb 2024 - May 2024**

- Designed an Arduino-based embedded system with flex sensors and accelerometer to convert hand gestures into speech.
- Implemented firmware in C/Python with signal preprocessing and Bluetooth protocol, ensuring reliable wireless communication.
- Technology: Arduino IDE, C++.
- Role: Hardware integration and code the system
- Link: https://github.com/priyaverma05/Sign-Language-to-speech-convergence.git

Home Automation System — **Jan 2025 – Mar 2025**

- Built an ESP32-based IoT automation system for smart appliance control using sensors and actuators.
- Programmed in Embedded C with ADC/DAC concepts for real-time data acquisition and automation.
- Technology: ESP32, Embedded C, Arduino IDE, IoT, Sensors & Actuators, ADC/DAC.
- Role: Embedded Systems Developer
- Link: https://github.com/priyaverma05/Home-Automation.git

The Rider's co-pilot: An intelligent assistant for smarter riding — **Aug 2025 - Ongoing**

- Description: This project is Raspberry Pi-based smart safety system for motorcycles. It automatically verifies rider safety and prevents ignition if any unsafe condition is detected. The system uses a wireless link to check three critical factors: 1) Helmet Usage 2) Alcohol & Breath Analysis 3) Drowsiness Detection
- Technology: C++, OpenCV, Raspberry Pi, IOT.
- Role: Hardware integration and Code the system.

Experience

Embedded System Design Internship-Maven Silicon — **Jan 2025-March 2025**

- Developed Embedded C/C++ firmware for automation modules on microcontrollers.
- Applied RTL-style design, functional testing, and debugging for system verification.
- Integrated sensors and peripherals, ensuring reliable hardware/software validation with Keil and Arduino IDE.
- Link: https://drive.google.com/file/d/1UoG1n1TY2y2jQIvNeEJxIy9tmOc1-6uj/view?usp=sharing

Extracurricular Activities

- Volunteered for attending the ANRF-sponsored National Symposium on Innovations in Intelligent Systems at (Feb 2024).
- Worked as a team member in the ROBOX event at AdVITya 24.

Achievements

- Awarded the STARS Scholarship by VIT Bhopal University (2022).
- Received ₹25,000 grant under Laptop Yojna (Madhya Pradesh Government) for academic excellence (2022).
- Awarded the INSPIRE Scholarship by the Government of India, offering ₹4,00,000 support for higher education in science and technology (2022).
- Secured Top Rank in District in Class 10th and 12th Board Examinations.

Certifications & Training

- Applied Machine Learning in Python (Coursera 2023).
- MATLAB Fundamentals, Machine Learning with MATLAB, Signal Processing Onramp.

Additional Information

Languages: Hindi, English
Hobbies: Photography, social activities.