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

Projects

Sign Language to speech conversion System   **Feb 2024 - May 2024**
- Designed a real-time gesture recognition pipeline using efficient C/C++ algorithms for fast frame processing.
- Built real-time firmware in C++ with scalable data flow for on-device AI deployment.
- Technology: Arduino IDE, C++, Embedded systems.
- Role: AI Data Pipeline & Embedded Integration Developer
- Link: https://github.com/priyaverma05/Sign-Language-to-speech-convergence.git

Home Automation System   **Jan 2025 – Apr 2025**
- Developed C/C++ firmware for ESP32 to manage sensors and device control with non-blocking routines.
- Implemented data pipelines, event handling, and secure storage using optimized embedded C logic.
- Technology: ESP32, Secure Offline Data Processing (ESP32 as Data Source), Embedded System.
- Role: Embedded Systems & hardware integration.
- Link: https://github.com/priyaverma05/Home-Automation.git

The Rider's co-pilot: An intelligent assistant for smarter riding   **Aug 2025 - Ongoing**
- Designed a multi-sensor safety assistant using Embedded C for real-time data, event detection, and alert generation.
- Utilized Python for debugging, calibration, and data visualization to validate system performance.
- Role: Hardware integration and Code the system.
- Link: https://github.com/priyaverma05/The-Rider-s-co-pilot-An-intelligent-assistant-for-smarter-riding.git

Experience

Embedded System Design Internship-Maven Silicon   **Jan 2025-Apr 2025**
- Implemented firmware in **Embedded C** for MCU-based home-automation modules, handling sensor reads, actuator control, and power management.
- 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

- Embedded System Design Certification (Maven Silicon 2025)

Additional Information

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