

Punam Thakur

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Education

VIT Bhopal University BTech ECE (AI and Cybernetics)	Cumulative GPA: 9.03/10	Bhopal, Madhya Pradesh Expected June 2026
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12th Standard

Govt. Girls Higher Secondary School MPBSE	Cumulative percentage: 90.6%	Jobat Alirajpur MP May 2022
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10th Standard

Govt. Girls Higher Secondary School MPBSE	Cumulative percentage: 88%	Jobat Alirajpur MP May 2020
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Technical Skills and Tools

C, C++, SQL, Embedded C, Embedded Systems, IOT, Product & System Understanding, Documentation, Excel/PPT

Projects

Sign Language to speech conversion System	Feb 2024 - May 2024
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- Developed a low-cost assistive technology solution by translating user gestures into speech, focusing on usability, system feasibility, and real-time performance Gained experience in solution design, requirement understanding, and user-focused product thinking.
- Technology: Arduino IDE, C++.
- Role: Product & Solution Development Contributor.
- Link: <https://github.com/PUNAM1357THAKUR/Sign-Language-To-Speech-Conversion-System>

Home Automation System

Jan 2025 – Mar 2025

- Developed a smart automation solution focused on energy efficiency, real-time monitoring, and operational optimization. The system supported remote control and data-driven environmental adjustment, improving efficiency and reliability.
- Technologies: ESP32, Ultrasonic, LDR, Temperature Sensor, Fan, C++.
- Role: Product & Operations Solution Contributor.
- Link: <https://github.com/PUNAM1357THAKUR/Smart-Home-Automation/tree/main>

The Rider's co-pilot: An intelligent assistant for smarter riding

Aug 2025 - Ongoing

- Analyzed risk scenarios and safety conditions, implementing automated decision logic to reduce operational and user risk.
- Technology: C++, OpenCV, Raspberry Pi, IOT
- Role: Risk Analysis & Decision Logic Contributor.
- Link: <https://github.com/PUNAM1357THAKUR/The-Rider-s-co-pilot-An-intelligent-assistant-for-smarter-riding-.git>

Experience

Embedded System Design Internship-Maven Silicon	Jan 2025-Mar 2025
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- Worked on end-to-end solution development, from understanding requirements to implementation and testing. Collaborated with mentors to ensure timely delivery, system reliability, and operational feasibility. Gained exposure to cross-functional coordination and structured problem solving.
- Improved skill level in microcontroller-based system design and embedded programming.
- Link- <https://drive.google.com/file/d/13VzNIHwmC7YB2Sn5zKaNjKI3vowemfgS/view?usp=sharing>

Extracurricular Activities

- Participated in Techfest IIT Bombay's Workshop on Electric Vehicles (Sept 2023).
- 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 with Dreamed STAR Scholarship from VIT Bhopal.
- Secured first position in district merit in class 12th.

Certifications & Training

- Embedded System Design Certification (Maven Silicon 2025)

Additional Information

Languages: English, Hindi

Hobbies: Poetry, Playing Badminton