

# Punam Thakur

Phone: +91 8827585501 | Email: punamthakur2022@vitbhopal.ac.in | <https://github.com/PUNAM1357THAKUR>

## Education

### VIT Bhopal University

BTech ECE (AI and Cybernetics)

Cumulative GPA: **9.03/10**

Bhopal, Madhya Pradesh

Expected June 2026

### 12<sup>th</sup> Standard

#### Govt. Girls Higher Secondary School

MPBSE

Cumulative percentage: **90.6%**

Jobat Alirajpur MP

May 2022

### 10<sup>th</sup> Standard

#### Govt. Girls Higher Secondary School

MPBSE

Cumulative percentage: **88%**

Jobat Alirajpur MP

May 2020

## 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**

- 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**

- 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 AdViTyा 24.

## Achievements

- Awarded with Dreamed STAR Scholarship from VIT Bhopal.
- Secured first position in district merit in class 12<sup>th</sup>.

## Certifications & Training

- Embedded System Design Certification (Maven Silicon 2025)

## Additional Information

**Languages:** English, Hindi

**Hobbies:** Poetry, Playing Badminton