

# SHIVENDRA SINGH

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## Education

### PDPM IIITDM Jabalpur

Aug. 2024 – July 2028

Bachelor of Technology in Electronics and Communication Engineering — CPI: 8.2

Jabalpur, Madhya Pradesh

### Central Hindu Boys School

2022 – 2023

Intermediate — 91%

Varanasi, Uttar Pradesh

## Technical Skills

**Languages:** C++, Python, JavaScript

**Core Concepts:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Machine Learning

**Web Technologies:** HTML, CSS, Tailwind CSS, React

**Tools & Libraries:** Git, GitHub, VS Code, MATLAB, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib

## Projects

### AI Posture Guide

(Python, Machine Learning, OpenCV, Scikit-learn, Pandas)

2025

- Built an AI-based posture monitoring system using computer vision and machine learning techniques.
- Designed and evaluated posture classification models across multiple posture samples.

### Radar Based Object Detection and Classification System

(CDM324, ESP32, SVM, CNN, FFT, Spectrogram Analysis)

2026

- Built a radar-based sensing system to detect motion and estimate distance, speed, and direction using signal processing techniques.
- Applied machine learning models (SVM, CNN) to classify objects based on Doppler and micro-Doppler signatures.

### Quick Teams – Team Formation Web Application

(HTML, CSS, JavaScript, Python Flask, SQLAlchemy)

2025

- Designed and developed a web-based platform for skill-based team formation for competitions.
- Implemented frontend modules to support team coordination workflows.
- Integrated backend services to manage user data and team assignments efficiently.

## Achievements

- Solved 450+ DSA and CP problems on across different coding platforms.
- Actively practice DSA problems on LeetCode.
- Achieved a 2-star rating (1446 max) on CodeChef.
- Attained a max rating of 1078 on Codeforces.
- Made 300+ contributions on GitHub.

## Relevant Coursework

- |                                      |  |
|--------------------------------------|--|
| • Data Structures and Algorithms     | • Python OOP                                   |
| • Introduction to Internet of Things | • Artificial Intelligence and its Applications |
| • Linear Algebra                     | • Signals and Systems                          |

## Leadership and Extracurricular

- Conducted many technical sessions in the college robotics club, strengthening public speaking skills.
- Worked in PR and Outreach team of college's technical festival, developing Communication Skills.
- Led teams in many technical competitions, building leadership and team coordination abilities.