

SHIVENDRA SINGH

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

Education

PDPM IITDM 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.