

# SHIVENDRA SINGH

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

## Education

### PDPM IITDM Jabalpur

*Bachelor of Technology in Electronics and Communication Engineering*

**Aug. 2024 – July 2028**

*Jabalpur, Madhya 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.
- Implemented preprocessing and feature extraction pipelines to improve posture classification accuracy.

### Radar Based Object Detection and Classification System

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

**2025**

- 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.
- Analyzed FFT and spectrogram outputs to extract discriminative features for reliable object classification.

### 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.
- Implemented frontend modules to support team coordination workflows.
- Integrated backend services to manage user data and team assignments efficiently.

## Achievements

- Solved 100+ DSA problems on **LeetCode**.
- Achieved a 2-star rating 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 technical sessions in the college robotics club, strengthening public speaking skills.
- Hosted and coordinated events at the college's technical festival Aphikalpan, developing crowd management skills.
- Led teams in intra-college technical competitions, building leadership and team coordination abilities.