

SHIVENDRA SINGH

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[LinkedIn](#)

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[Portfolio](#)

Education

PDPM IIITDM 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

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|--------------------------------------|--|
| • 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.