

SHIVAM SHARMA

Python Developer • Full-Stack Engineer • AI/ML Enthusiast

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PROFESSIONAL SUMMARY

Motivated Computer Engineering fresher with proven experience building production-ready REST APIs, AI-powered tools and full-stack web applications. Proficient in Python, FastAPI, React.js and MySQL with strong understanding of SDLC, OOP and Agile methodologies. Passionate about solving real-world problems through clean, scalable and maintainable code.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), SQL

Frontend: React.js, HTML5, CSS3, Bootstrap 5, Tailwind CSS, Responsive Design

Backend: FastAPI, REST API Development, JWT Authentication, RBAC

Database: MySQL, MySQL Workbench, Schema Design, Query Optimization, CRUD

AI / ML: AI Prompting (Prompt Engineering), NLP Integration, OpenCV, ML Model Integration

Tools & Workflow: Git, GitHub, VS Code, Pandas, Automation Scripting, Linux CLI, Agile/Scrum

Core CS: Data Structures & Algorithms (DSA), OOP, DBMS, Computer Networks

PROJECTS

QR-Based Library Management System | [Python](#) · [FastAPI](#) [MySQL](#) [JS](#) [React](#) 2026

- Designed and deployed 10+ RESTful APIs with FastAPI, enabling full CRUD operations for 3 user roles (Admin, Librarian, Student)
- Implemented JWT-based authentication & Role-Based Access Control (RBAC), reducing unauthorized access vulnerabilities
- Automated penalty processing engine, eliminating 100% of manual fine tracking and cutting admin effort by 70%
- Built Excel bulk-upload pipeline integrating Pandas + MySQL for high-volume data ingestion
- Engineered normalized relational database schema improving query performance and data integrity

Face Recognition Attendance System | [Python](#) [FastAPI](#) [OpenCV](#) 2025

- Built FastAPI backend with real-time face detection via OpenCV, achieving automated attendance with 80% accuracy
- Designed RESTful endpoints for attendance CRUD operations and integrated automated PDF report generation
- Reduced manual attendance effort by 80% through end-to-end automation of identification and logging pipeline

NIL – AI Voice Assistant | [Python](#) [NLP](#) [Speech Recognition](#) [Automation](#) 2024

- Developed AI-powered voice assistant using Python NLP models, speech recognition and text-to-speech (TTS) APIs
- Integrated prompt engineering techniques for context-aware, intelligent conversational responses
- Automated 5+ workflows (web navigation, messaging, task scheduling) reducing repetitive manual interaction

EDUCATION

B.Tech – Computer Engineering | Government College of Engineering, Yavatmal CGPA: 7.89 Expected 2026

Relevant Coursework: Data Structures & Algorithms, DBMS, OOP, Computer Networks, AI/ML Fundamentals

ACHIEVEMENTS & ACTIVITIES

Spokesperson, CESA Committee Coordinated tech events for 300+ students **NRC Robotics IIT Bombay** National-level robotics competition

District-Level Chess Player Strategic problem-solving **ATAL Marathon Participant**