

Vibhor Mishra

Software Engineer | AI/ML Engineer

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Professional Summary

B.Tech CSE student (RGPV, Class of 2027, CGPA 7.75) who ships production-oriented systems: built a waste-management platform reporting 30% fuel savings and 80% fewer bin overflows, and a biometric attendance system deployed across 500+ students. Comfortable across the stack – from CNN training and multi-agent orchestration to React/Node applications and real-time WebRTC systems. Ranked across multiple national-level hackathons/challenges.

Technical Skills

- **Languages:** Python, Java, JavaScript (ES6+), SQL, HTML5, CSS3
- **AI/ML:** PyTorch, OpenCV, LangChain, RAG, Gemini API, Groq API, DeepFace, DenseNet201 (CNN)
- **Web Development:** React, Next.js, Node.js, Express.js, FastAPI, REST APIs, WebSockets
- **Real-Time & Data:** Socket.IO, WebRTC, MongoDB, Supabase
- **Cloud & Tools:** Git, Docker, Google Cloud, Render, Vercel, JWT, CI/CD concepts
- **Core Concepts:** Multi-agent systems, neurosymbolic AI, system design, data structures and algorithms

Experience

RineX.AI

Nov 2023 – Dec 2023

Artificial Intelligence Research Intern

Bhopal, India

- Researched supervised, unsupervised, and deep learning fundamentals under mentorship, applying Python and PyTorch to classification and predictive-modeling tasks.
- Built a weather prediction model achieving 88.40% accuracy and a sales prediction model with MAE 1.07 / RMSE 1.40, evaluated across standard regression metrics.

Saksham Digital Technology

Jul 2024

Web Design Intern

Bhopal, India

- Designed and built a visually polished, video-integrated travel showcase website in HTML5/CSS3, applying responsive layout and accessible UI patterns across multiple page templates.

Projects

Kachra Seth | AI-Powered Urban Waste Management Platform

React, Node.js, MongoDB, DenseNet201

- Trained a DenseNet201 CNN on 50,000+ Indian waste images across seven categories within a three-layer full-stack SaaS platform; combined Dijkstra shortest-path routing with a Genetic Algorithm for vehicle routing and QR-code bin tracking, delivering 30% fuel savings and 80% fewer bin overflows. Awarded 3rd Place, Anveshana 2025 Tech Fest.

SAMPARK | Real-Time Video Conferencing Platform

React, Express, MongoDB, Socket.IO, WebRTC

- Built a full-stack video-meeting application with WebRTC peer connections, STUN-server signaling relayed through Socket.IO, screen sharing, and real-time chat, alongside meeting-code-based room joins and history tracking; actively used for internal testing.

IRIS | AI-Powered Attendance System with LLM Interface

Python, DeepFace, FastAPI, Firebase, React, JWT

- Developed a biometric attendance platform using DeepFace facial recognition with rotating JWT-signed QR-code fallback (RS256 signing), deployed across 500+ students; built IRIS-LLM, a natural-language query layer for attendance analytics.

MARG | Multi-Agent Crisis Response Platform (Google Solution Challenge 2026)

Python, FastAPI, Supabase, React, TypeScript, Groq, Docker, Render

- Built a neurosymbolic multi-agent orchestration system with an asynchronous FastAPI backend containerized on Railway, paired with a React/TypeScript dashboard streaming live state over WebSockets; submitted to Google Solution Challenge 2026.

Education

Sagar Institute of Research & Technology (SIRT), RGPV University

Aug 2023 – May 2027

B.Tech, Computer Science and Engineering – CGPA: 7.75

Bhopal, India

IIT Mandi × NSDC × Masai School

Oct 2024 – 2025

Minor in CSE & Advanced Technologies (ID: IITMCS_24093012)

Certifications & Achievements

Oracle Certified Foundations Associate – Agentic AI (2026) · Google Gemini Certified (2025) · IBM SkillsBuild – RAG for Enhanced AI Outputs (2026) · NPTEL Elite Java, 83%, IIT Kharagpur (2025) · 3rd Place, Anveshana 2025 Tech Fest · 4th Rank, Tech-Sageathon 2K26 (SIRT) · 6th Rank, SolveExpo 2026 (JNCT Bhopal, 100+ startups)