

# GAURAV KUMAR VERMA

Software Engineer · AI/ML Builder · Competitive Programmer  
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## PROFESSIONAL SUMMARY

B.Tech Computer Science student at IIIT Noida (CGPA 7.9) with a strong track record of building complete, working AI-powered products — from a brain tumor classifier achieving ~98.66% accuracy, to an offline NLP desktop automation system, a deployed healthcare AI platform, and a real-time pollution forecasting API. Comfortable across the full stack: React/Next.js frontends, FastAPI backends, and ML pipelines using TensorFlow and Scikit-learn. Oracle AI Foundations certified. Seeking opportunities to contribute to teams building impactful, well-engineered software.

## SKILLS

### Programming Languages

C, C++, Python, Java, JavaScript, SQL

### Frontend Developer

React.js, Next.js, Tailwind CSS, Vite, Figma, Canvas

### Backend Developer

FastAPI, Node.js, Firebase, REST APIs

### CS Fundamentals

Data Structures & Algorithms, OOPs, System Design, Networking, DBMS

### AI/ML

Scikit-learn, EfficientNetV2, Ollama, Tesseract.js, Grad-CAM, TensorFlow

### Data

Pandas, NumPy, Time-series Forecasting, Clustering, Geospatial Visualization

### Tools & Platforms

Git, GitHub, Vercel, VS Code

### Problem Solving & Analytical Thinking

### Debugging & Code Optimization

### Technical Documentation

### Competitive Programmer

## PROJECTS

### Brain Tumor Classification – Robust Deep Learning

2026

Python · TensorFlow/Keras · EfficientNetV2-S · Grad-CAM

- Trained EfficientNetV2-S on multi-class MRI data for brain tumor classification, achieving ~98.66% test accuracy across 4 classes.
- Boosted model robustness by training on combined clean + noise-augmented datasets; applied Grad-CAM for visual activation maps and clinical interpretability.

### ATLAS – Local AI Desktop Automation System

2026

Python · Ollama (local LLM) · NLP/Regex Pipeline · Desktop APIs

- Built a fully offline NLP-to-action engine: rule-based regex classifier handles known commands (~85-90% accuracy); local Ollama LLM resolves ambiguous inputs — zero cloud dependency.
- Implemented 3-layer risk-gated execution (validation → risk scoring → confirmation) before real desktop actions, with persistent session memory.

### HealthSync – AI Healthcare Continuity Platform

2025

React · Vite · Tailwind · Redux Toolkit · Tesseract.js · Vercel

- Built multi-role healthcare dashboard with Tesseract.js OCR-powered prescription digitization, rule-based NLP analysis, and predictive monitoring alerts; deployed on Vercel.
- Awarded Certificate of Excellence at Hackoverflow 9.0 (team project built under competitive hackathon conditions).

### Delhi Ward Pollution Monitor (DWLP)

2026

React · FastAPI · Scikit-learn · Geospatial libraries

- Full-stack platform for real-time ward-level AQI monitoring with ML-driven forecasting (time-series regression) and clustering-based policy recommendations across Delhi wards.
- FastAPI backend ingests real Delhi AQI datasets, runs forecast models, and serves geospatial visualizations to React frontend.

## CodeVibe – AI Prompt Engineering Platform

2025

*Next.js · Firebase Auth · Vercel AI SDK · OpenAI / Anthropic APIs*

- Built a Next.js platform for structured AI prompt generation across SDLC phases with BYOK integration supporting OpenAI and Anthropic APIs via direct browser-to-API communication.

## EDUCATION

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### **B.Tech – Computer Science & Engineering | Jaypee Institute of Information Technology**

May 2024 – May 2028

CGPA: 7.9 · Noida, India · Ranked Top 10 – College HackerRank Coding Contest

### **Higher Secondary – Non-Medical | St. Joseph's Convent School**

Apr 2009 – Apr 2024

94% · Faridabad, India

## CERTIFICATIONS & ACHIEVEMENTS

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- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Cisco Certified Networking Basics
- Certificate of Excellence – Hackoverflow 9.0 (HealthSync, competitive hackathon)
- Certificate of Appreciation – Paranox 2.0 · Certificate of Appreciation – HackVision

## VOLUNTEER

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### **National Service Scheme (NSS), IIIT Noida**

Oct 2025 – Present

- Led technical operations for community outreach events promoting environmental and social awareness.
- Tutored peers in technical subjects; produced informational content for community distribution.