

DIWAKAR MISHRA

Bhopal, Madhya Pradesh

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY, BHOPAL

2023 – 2027

B.Tech - Computer Science and Engineering (AIML) - **CGPA - 7.84**

Bhopal, Madhya Pradesh

TECHNICAL SKILLS

Python, C++, SQL, HTML, CSS, FastAPI, Flask, LangChain(Basics), scikit-learn, spaCy, NumPy, Pandas, Matplotlib, Microservices, RESTful APIs, Git, GitHub, JSON, Power BI, Excel

EXPERIENCE

Paws Pal Connect

Dec 2025 - Present

FastAPI Developer Intern

Remote

- Developing and maintaining **RESTful APIs** using **FastAPI**, with focus on clean architecture and performance.
- Optimizing database operations, debugging backend issues, and documenting APIs while collaborating with cross-functional teams.

ASGRV Solutions Pvt. Ltd.

Jun 2025 - Dec 2025

Software Developer Intern

New Delhi

- Engineered a Smart Search **Microservice API** utilizing Python and FastAPI, slashing data retrieval latency by 30% and boosting application performance metrics for internal client search workflows.
- Spearheaded creation of secure **RESTful API architecture**, writing production-ready code that streamlined operational workflows and demonstrably **reduced server load** by 10% during peak usage.

PROJECTS

Socratic AI Coding Coach (AlgoSENSEI) | Python, FastAPI, LangChain ↗

Oct 2025

- Engineered a scalable AI coaching platform integrating **FastAPI**, **LangChain**, and **Gemini API**; platform now supports 500+ daily active users and reduces onboarding time by 40%.
- Streamlined a multi-service architecture with **Vercel frontend** and **Render backend**, facilitating scalable public access to the AI coding coach and supporting **50+** concurrent users with minimal latency.

Smart Resume Analyzer | Python, Flask, NLP, ML ↗

Jul 2025

- Designed and implemented a scalable Flask web application leveraging **spaCy** and **scikit-learn** for **NLP-driven** skill extraction and classification from **PDF/DOCX** resumes with **95%** accuracy
- Orchestrated the creation of **RESTful APIs** using Flask with robust error handling, which supported automated resume parsing, and section extraction, **reducing manual processing** time by 7 minutes per resume.
- Constructed a weighted scoring mechanism for resume evaluation that elevated candidate ranking precision by **20%**, leveraging **Gunicorn**, **Nginx**, and **systemd** for robust security and uptime.

FinTech Dashboard & Predictive Analytics | Python, ML ↗

Apr 2025

- Launched a **Predictive Analytics** FinTech Dashboard via **Streamlit**, connecting **live financial APIs** and reducing manual portfolio tracking time by 1.5 hours weekly for each of **75 active users**.
- Catalyzed a **Machine Learning pipeline** leveraging **Scikit-learn** to forecast stock prices, achieving **85%** accuracy and leading to a **3%** improvement in simulated portfolio performance.

EXTRACURRICULAR ACTIVITIES

- **University Sports Secretary, VIT Bhopal:** Supervised 300+ volunteers and organised the AdvITYa'25 Annual Sports Fest with 1500+ participants, ensuring flawless execution.
- **iOS Club Student Coordinator, VIT Bhopal:** Led major hackathons, workshops, and speaker sessions on app development, driving innovation and member engagement.
- Active participant in coding hackathons and competitions; recognized as Best Maintainer at **AcWoc'25 Hackathon**.
- Mastered **Python for data science, AI and development, Databases** and **SQL** through rigorous **IBM** coursework, applying learned skills in hackathons to create 3 unique machine learning algorithms which improved code efficiency by **15%**.