

# DIWAKAR MISHRA

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## Professional Summary

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Motivated developer with experience in Python, machine learning, and backend development, focused on building scalable products and AI-driven solutions. Seeking opportunities to apply technical skills to real-world challenges and innovative products.

## Technical Skills

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- **Languages/Frameworks/Tools:** Python, C++, SQL, FastAPI, LangChain(Basics), Machine Learning ,RESTful APIs, Microservices, Git, GitHub, Power BI.

## Work Experience

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### Paws Pal Connect - FastAPI Developer Intern

Dec 2025 - Mar 2026

(FastAPI, REST APIs, PostgreSQL, Pydantic (FastAPI validation), Git / GitHub)

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. - Software Developer Intern

Jun 2025 - Dec 2025

(FastAPI, REST APIs, Microservices Architecture, SQL Databases, Pydantic, JSON, Git, Async APIs)

Onsite

- Developed a Smart Search microservice using Python and FastAPI, reducing data retrieval latency by 30%.
- 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

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### FinTech Dashboard & Predictive Analytics | Link | GitHub

(Python, ML, Git)

- 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.

### AlgoSENSEI | Socratic AI Coding Coach | Link | GitHub

(Python, FastAPI, LangChain)

- 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 | Link | GitHub

(Python, FastApi, NLP, ML)

- Built an NLP-based resume parsing and classification system using **spaCy** and **scikit-learn**, achieving **95%** accuracy in skill extraction and candidate evaluation.
- Developed **RESTful APIs** and deployed the application using **Gunicorn** and **Nginx**, implementing a weighted scoring system that improved candidate ranking accuracy by 20%.

## Education

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### Vellore Institute of Technology, India

2023 – 2027

BTech in Computer Science and Engineering (AIML) (CGPA: 7.79)

## Achievements & Extracurricular

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- **University Sports Secretary**, VIT Bhopal: Supervised 300+ volunteers and organised the AdvITya 2024,2025 & 2026 Annual Sports Fest with 1500+ participants, ensuring flawless execution.
- Research Paper Accepted: “Hybrid Attention Network with TabNet Benchmarking for Breast Cancer and Heart Disease Classification” — at the 1st International Conference on Smart Technologies and Intelligent Computing (INCSTIC-2025).
- Top **600** out of 35,000+ teams — **India Innovates 2026** National Hackathon Finalist. Built and presented a Hyperlocal Flood Intelligence System for urban flood risk mapping.