VIGYAT SINGH

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PROFESSIONAL SUMMARY

AI Engineer and ML Developer with experience building automated data pipelines, deploying ML systems, and designing AI-driven applications. Strong in Python, FastAPI, LLM integrations, data analysis, and full-stack engineering. Focused on developing reliable, scalable, and production-ready AI tools.

EXPERIENCE

Data Science Intern — EdFoal Services Pvt. Ltd.   *Jan 2025 – Jun 2025*

- Optimized preprocessing for 100K+ records, reducing pipeline runtime by **20%**.
- Performed EDA across multi-source datasets, improving model accuracy by **15%**.
- Built automated dashboards that reduced reporting workload from 2 hours to **45 minutes**.

PROJECTS

AutoCleanML-Automated Data Understanding & Cleaning System   Live Site — GitHub
Tech: React, TypeScript, FastAPI, Python, Gemini 2.5 Pro, Pandas

- Built an end-to-end automated data-cleaning pipeline that performs missing-value treatment, type fixes, encoding, scaling, and outlier handling.
- Developed an LLM-assisted decision engine (Gemini 2.5 Pro + heuristics) that selects optimal cleaning strategies, generates reproducible Python code, and enables users to download the fully cleaned dataset.
- Implemented an analytics dashboard with profiling, correlations, quality scores, and dataset exports for downstream ML tasks.

JobPilot-Job Aggregation & Ranking Platform   Live Site — GitHub
Tech: PostgreSQL, Express, Node.js, React, Supabase, Vercel

- Built a job aggregation engine that collects, normalizes, and ranks listings from multiple third-party APIs.
- Implemented Supabase caching to reduce external API requests by **80%**, improving speed and rate-limit safety.
- Deployed using CI/CD on Vercel and Render for stable builds and fast iteration.

Student Exam Performance Predictor-ML Deployment Pipeline   GitHub
Tech: Flask, Docker, AWS, Scikit-learn, Python

- Developed a machine-learning model achieving **85%+ accuracy**, outperforming baseline models by **12%**.
- Containerized and deployed on AWS for scalable, low-latency inference.
- Automated model training and updates using a CI/CD-enabled workflow.

SKILLS

- **Languages:** Python, JavaScript, TypeScript, Java, C++
- **AI/ML:** LLMs, PyTorch, Scikit-learn, NLP, RAG
- **Data:** Pandas, NumPy, Feature Engineering, EDA
- **Backend:** FastAPI, Flask, Node.js, REST APIs, Docker
- **Databases:** PostgreSQL, MongoDB, Supabase, Vector DBs
- **DevOps:** AWS, Vercel, Render, CI/CD, Git
- **Frontend:** React, Next.js, TailwindCSS

EDUCATION

KIIT University, Bhubaneswar   *2022 – 2026*
B.Tech in Computer Science and Engineering

ADDITIONAL

Achievements: Poster Winner — IIT Kharagpur (2024); 2nd — Launchpad Quiz (2024); 1st — Badminton (2021–23)
Extracurriculars: Java Developers Association; Independent Music Artist (YouTube)