

ABHAY YADAV

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Professional Summary

Data-driven AI and Analytics engineer experienced in building ML pipelines, AI-powered systems, and business intelligence dashboards. Strong foundation in SQL, EDA, experimentation, KPI tracking, and product thinking, enabling data-backed decision making. Actively exploring and implementing modern Artificial Intelligence tools, AI agents, and automation frameworks to solve real-world business problems.

Technical Skills

AI / ML: Python, Machine Learning, Generative AI (RAG, LLMs), LangChain, Hugging Face, AI Agents, EDA

Analytics: SQL, Pandas, NumPy, Power BI, MS Excel (Pivot Tables, Advanced Formulas, Dashboards)

Databases & Deployment: FastAPI, Docker, AWS (, Hugging Face Spaces, MySQL, MongoDB

Product & Collaboration: Jira, Agile, PRD Writing, A/B Testing, KPI Tracking

Tools: Git, Google Colab, n8n, Adobe Illustrator, Canva

Education

Vellore Institute of Technology (VIT), Bhopal

B.Tech in Computer Science Engineering

Sep 2022 – Present

CGPA: 8.47

Projects

Sales Data Analytics Dashboard

SQL, Python (Pandas), Power BI, MS Excel

- Analyzed **3900+ sales records** across 12+ business features to uncover performance trends.
- Identified seasonal demand patterns enabling.
- Built interactive Power BI dashboards tracking **10+ KPIs**.
- Reduced reporting effort by **60% through automation**.

lexSQL – Schema-Aware RAG System

Python, LangChain, Hugging Face, OpenAI API

- Embedded **100% database schema metadata** for accurate NL-to-SQL generation.
- Designed **modular 5-component architecture** for scalability.
- Processed **100+** queries with **sub-300ms latency**.

Security System – ML Pipeline & Deployment

Python, Docker, AWS EC2, MLflow, FastAPI

- Built **6-stage end-to-end ML pipeline** processing **10K+ records per run**.
- Reduced deployment time by **94%** using **Docker automation**.
- Tracked **30+ experiments** ensuring reproducibility.
- Developed inference API handling **20+ requests/min under 250ms latency**.

Experience

Freelance Graphic Designer

Jun 2021 – Jan 2022

- Created **150+ design assets** including posters, social media creatives, branding kits, and architectural map renders.
- Worked with **12+ repeat online clients** maintaining strong retention.
- Designed **conversion-focused promotional campaigns**.
- Delivered freelance design solutions for multiple college clubs.

Leadership & Campus Initiatives

English Literature Association, VIT — Creative Lead

- Hosted **2 large-scale literary events** with **350+ footfalls each**.
- Designed **pop-culture themed promotional assets** including posts, posters, tickets, and stage props.
- Led digital campaigns improving participation and engagement.

Blockchain Club, VIT — Design Team

- Organized Ideathons and stock market simulations with **50+ teams**.
- Managed branding, campaigns, and execution logistics.

Certifications

Machine Learning Specialization – DeepLearning.AI