MD OSAMA

DATA ANALYST & AI DEVELOPER

Python • SQL • Pandas • Tableau • Power BI • Excel • Generative AI • RAG

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PROFESSIONAL SUMMARY

Data Science undergraduate student at IIT Madras with hands-on project experience in data analytics, business intelligence and Generative AI application development. Skilled in Python, SQL, Pandas, Tableau, and Excel for data cleaning, exploratory data analysis, KPI tracking, and business insight generation. Experienced in building AI-powered applications using LangChain, LangGraph, RAG, FastAPI, and LLM integrations. Interested in transforming structured data and unstructured information into actionable insights and intelligent business solutions

TECHNICAL SKILLS

Data Analytics: Python, Pandas, NumPy, SQL, Excel, Exploratory Data Analysis (EDA), Data Cleaning, KPI Analysis
Business Intelligence & Visualization: Tableau, Power BI, Dashboard Development, Data Visualization, Trend Analysis
Generative AI & LLMs: LangChain, LangGraph, LangSmith, RAG, Prompt Engineering, AI Agents, Google Gemini API
Backend & APIs: FastAPI, REST APIs, Pydantic

EDUCATION

Indian Institute of Technology Madras (IIT Madras) Bachelor of Science in Data Science — **Expected Graduation: 2028**
Physics Wallah Institute of Innovation (PWIOI) School of Technology (SOT) — **Student**

PROJECTS

Global Superstore Sales Analysis — SQL | Python | Pandas | Tableau

- Analyzed sales transaction data to evaluate business performance across product categories, regions, and customer segments.
- Used SQL queries, joins, aggregations, and calculated KPIs to examine sales and profitability patterns.
- Performed exploratory data analysis using Pandas to identify sales trends and potential profit drivers.
- Developed interactive Tableau dashboards to communicate regional performance, category profitability, and customer-segment insights.

GitHub Link : https://github.com/mdosama8435/Global-superstore-data-analysis.git

NYC Airbnb Data Analysis — Python | Pandas | SQL | Tableau

- Analyzed NYC Airbnb listing data to explore pricing patterns, listing availability, room types, and neighborhood-level performance.
- Cleaned and transformed datasets using Pandas to support consistent and reliable analysis.
- Used SQL queries to investigate host, listing, and customer-preference patterns.
- Designed Tableau dashboards to visualize price distributions, availability, review trends, and geographic differences.

GitHub Link : https://github.com/mdosama8435/nyc-airbnb-data-analysis.git

ResumeForge-AI — AI-Powered Resume Intelligence Platform — React | Next.js | Python | FastAPI | LLMs | RAG

- Developed an AI-powered resume analysis platform to evaluate resumes against job descriptions and generate ATS-oriented recommendations.
- Implemented AI workflows for resume information extraction, skill-gap identification, and structured resume improvement suggestions.
- Built a responsive frontend using React and Next.js with reusable components and modern UI patterns.
- Integrated backend APIs with AI processing workflows to support automated resume analysis.

GitHub Link : https://github.com/mdosama8435/ResumeForge-AI.git

Agentic AI Chatbot — Python | LangGraph | LangChain | Google Gemini | RAG | FAISS | MCP | Streamlit | SQLite | LangSmith

- Built an agentic chatbot using LangGraph StateGraph to orchestrate tool selection, execution, and response generation.
- Integrated web search, stock-price retrieval, calculator, and MCP-based tools to support multi-step task execution.
- Implemented PDF-based retrieval-augmented generation using document loading, text splitting, Gemini embeddings, and FAISS for context-grounded question answering.
- Added SQLite checkpointing for persistent conversations, Streamlit response streaming, and LangSmith tracing for workflow observability.

GitHub Link : https://github.com/mdosama8435/Agentic-AI-Chatbot.git

LEADERSHIP & ACHIEVEMENTS

- **Technical Lead — Algorand Blockchain Club:** Lead technical initiatives
- Participated in AWS Bharat Build and PWIOI RIFT Hackathon.
- Participated in Google Gemma developer events and Postman events and other technical learning events.