

Irfan Thanveer

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PROFESSIONAL SUMMARY

AI Engineer with experience building enterprise-grade Applied AI solutions across Agentic AI, multi-agent orchestration, modern Retrieval-Augmented Generation (RAG). Strong background in Python backend engineering, FastAPI APIs, Azure AI services, OpenAI integrations and productionizing Proof-of-Concepts into scalable client solutions.

CORE SKILLS

Programming: Python, SQL

AI/LLM Engineering: Agentic AI, Multi-Agent Systems, LangChain, LangGraph, OpenAI SDK, Prompt Engineering, RAG Architectures

Backend: FastAPI, REST APIs, Async Python, Mongo DB, MySQL, Milvus DB

Cloud & Deployment: Azure AI Services, Docker, Kubernetes, Git

Data & ML: Pandas, NumPy, Machine Learning, NLP, Statistical Analysis, Feature Engineering

Visualization & BI: Streamlit, Matplotlib, Excel

PROFESSIONAL EXPERIENCE

Infosys BPM — AI Engineer, AI CoE (Centre of Excellence)

Dec 2024 – Present | Bengaluru, India

- Developed an intelligent web automation and scraping solution using the Browser-Use, **Langchain**, library and **Python** to automate large-scale product data extraction workflow, later enhancing the solution into an **Agentic AI** system using **Azure AI Foundry** for scalable enterprise web intelligence.
- Led a team of 3 engineers to develop an enterprise Insights generation solution using **LangGraph** enabling automated data transformation, data profiling, chart creation, insight generation, and contextual chatbot interactions through multi- AI Agent orchestration.
- Presented the solution at an internal AI hackathon and secured first place among 20+ teams, winning the Future Talent & Innovation Team Award.
- Leading development of a next-generation enterprise Q&A and process training platform using **LangGraph**, **OpenAI Responses API**, **Claude** and Page-Indexed Retrieval Architecture (**Vectorless RAG**).

HfactoR — Software Engineer

May 2024 – Dec 2024 | Bengaluru, India

- Built an **GenAI** application to streamline internal support ticket workflows by extracting data from **PostgreSQL**, performing **data transformation** and **analysis** to identify recurring operational issues, and delivering insights through an interactive **Streamlit** dashboard.
- Performed exploratory **data analysis**, **feature engineering**, and reporting pipeline development for business insights.

iSocrates LLC — Data Engineer

Jun 2023 – Nov 2023

- Engineered **Python ETL** scripts to optimize data pipelines and improve system efficiency.
- Implemented **AWS Redshift, S3, and Athena** for scalable cloud data storage and querying.
- Modernized legacy SSIS / SSMS workflows into Python-based cloud-native pipelines.

Project and Business Management Pte Ltd — Project Engineer (Analytics)

Nov 2020 – Mar 2022

- Managed project planning and execution with focus on operations analytics, inventory, and process optimization using **Excel, MySQL** and **Python** for viz.

PROJECTS

Credit Risk Analytics — Built ML classification models to identify potential loan defaulters using Random Forest, XGBoost, AdaBoost, and oversampling techniques.

Laptop Price Prediction — Developed supervised ML model achieving 84.2% accuracy for laptop price prediction.

EDUCATION

Post Graduate Program in Data Science & Engineering — Great Lakes Institute of Management (2022)

B.Tech, Mechanical Engineering — SRM Institute of Science and Technology (2020)

CERTIFICATIONS

- Microsoft Ai 900
- Google Data Analytics Professional Certificate