

KARTIK GOSWAMI

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GitHub: github.com/kartik703 | Portfolio: kartik703.github.io

PROFILE

Lead Python + SQL Developer with strong experience delivering data-driven solutions, AI-powered automation, and end-to-end application development. Proven success in integrating LLM APIs, building secure data pipelines, and deriving commercial insights from large datasets. Passionate about transforming financial systems using modern tech and AI tools.

TECHNICAL SKILLS

Languages: Python (Advanced), SQL (Stored Procedures, Queries)

Databases: Oracle, PostgreSQL, MySQL

Cloud Platforms: Microsoft Azure, Azure Power Platform (Power BI, Logic Apps), GCP (Notebook LM)

AI Tools: OpenAI (GPT-4), Google Gemini, Claude AI, Microsoft CoPilot, LangChain

Visualization: Streamlit, Tableau, Power BI

Frameworks: FastAPI, Flask, Pandas, NumPy

CI/CD & Ops: GitHub Actions, Docker (basic), MLflow (for AI pipelines)

EDUCATION

MSc in Data Science and Artificial Intelligence

Newcastle University, UK Sep 2024 - Sep 2025 (Expected)

Focus Areas: Generative AI, Cloud Integration, SQL Systems, NLP Engineering

PROJECT EXPERIENCE

Custom GPT + Chatbot Deployment (Finance Sim)

Developed and deployed a GPT-powered chatbot for customer support and financial query routing using OpenAI and Azure integration.

Stack: GPT-4, LangChain, Azure Functions

Financial Insights Generator using Gemini

Created an interactive financial trends analyzer that used Google Gemini APIs to generate insights from tabular and unstructured reports.

Stack: Gemini, Pandas, FastAPI

SQL & Python Automation for Financial Reporting

Automated monthly reporting for simulated fintech dashboards with stored procedures and dynamic SQL visualizations.

Stack: PostgreSQL, Python, Tableau

RAG-Based Document Retriever

Built a real-time financial document assistant using OpenAI, LangGraph, and FAISS.

Stack: FAISS, OpenAI, LangGraph

CERTIFICATIONS

Certified Forage and Grassland Professional (British Airways), Mar 2025

Google: Data Foundations (2024)

Microsoft: Azure Fundamentals (2024)

IBM: Exploratory Data Analysis for ML (2024)

IBM: What is Data Science? (2024)

EXTRA-CURRICULAR & HIGHLIGHTS

- Built 15+ production-ready apps using Python + SQL stack and GenAI tools
- Lead AI engineer for multiple LLM prototype deployments (LangChain, Claude, Gemini)
- Strong interest in fintech products and financial risk prediction tools