Umais Muhammad Siddiqui _AI Engineer_

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○ github.com/umais2005

🎓 Education

A levels
Aug 2022 – Oct 2024
A*, A*, B - Maths, Computer Science, Physics

🧠 Skills

Programming Languages
Python

Artifical Intelligence
Machine Learning, Natural Language Processing (NLP), Large Language Models (LLMs)

LLM Ecosystem
Experience with closed and open source LLMs (OpenAI APIs, Huggingface, Ollama), Agentic Frameworks (PydanticAI, LangGraph), Claude MCP

Data Handling
Creating data pipelines for AI workflows, data preprocessing, web scraping for data acquisition

Deployment
Making applications in FastAPI, cloud platforms to deploy applications and automations

Frameworks and Libraries
Pandas, Scikit Learn, Tensorflow, LangChain, LangGraph, PydanticAI, FastAPI, Selenium

📇 Profile

Strong foundation in Python programming with hands-on experience in machine learning, natural language processing (NLP), and large language models (LLMs). Skilled in data preprocessing, model training, and evaluation. Experienced in building robust AI pipelines, integrating vector databases for efficient retrieval, and designing effective prompts to generate context-aware outputs. Proficient in developing and deploying APIs using FastAPI, with a focus on building scalable and production-ready AI applications.

💼 Professional Experience

Ariel Teknology
AI Engineer Intern
Aug 2024 – Dec 2024 | Karachi, Pakistan
Developed a prototype AI agent using LLMs and vector databases, implementing RAG techniques to provide context-aware medical report explanations.

Saynt AI
AI Engineer Intern
Jul 2024 | Karachi, Pakistan
Contributed at a startup to develop AI workflows for enhancing teaching and learning. Leveraged OCR and RAG techniques with LLMs to improve access to educational content and support innovative student engagement solutions.

🏅 Certificates

Complete Generative AI Course With Langchain and Huggingface - Udemy ⤴
• Gained hands-on experience with Langchain and Huggingface.
• Learned to build, deploy, and optimize AI models.
• Created applications like chatbots and content generators among 10+ projects

Google Data Analytics - Coursera
• Gaining skills in data cleaning, analysis, and visualization using SQL, R and Tableau with practical project experience.

📂 Projects

AI Chatbot for Climate Research
• Developed a climate-focused chatbot using **LangChain**, **GPT-4**, and **Whisper**, integrating **20+ books** and **100+ podcasts** into a **Pinecone Vector DB** for RAG-based responses.
• Deployed on **Streamlit Cloud** with a cloud-based pipeline for seamless data ingestion and transcription, ensuring efficient and organized knowledge retrieval.

Mobile Price Range Classifier
• Improved model accuracy by 20% through feature engineering, achieving 95% accuracy choosing SVC among many models.

EDA/Predictive Analysis
• Performed EDA on 10+ datasets using Jupyter Notebooks, deriving actionable insights.
• Utilized Pandas, Matplotlib, Seaborn, and Sci-kit learn

Recommender chatbot
• Built a chatbot using LangChain and Llama 3 to provide humanlike recommendations from a vector database of 15000+ app descriptions using RAG.