

# Taimour Abdul Karim

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## Summary

Passionate AI/ML Engineer with hands-on experience building LLM-based systems, RAG chatbots, and intelligent voice agents. Skilled in Python, LangChain, OpenAI, LlamaIndex, and LangGraph. Proven success working on international projects, delivering scalable solutions, and pushing boundaries in real-world AI applications.

## Technical Skills

**Languages:** Python, C/C++, SQL

**Tools/Frameworks:** Jupyter Notebook, GitHub, Docker, FastAPI, Hugging Face, Cloud Computing (AWS), Selenium, TensorFlow, Keras, PyTorch, OpenCV, Scikit-Learn and NLTK, Pinecone, OpenAI APIs

## Work Experience

**Datality, London (Remote)**

Jan 2025 – Present

*AI/ML Engineer*

- Designed and implemented intelligent dashboards using LangChain agents, large language models (LLMs), and AI-driven analytics, empowering businesses to make data-informed decisions with enhanced accuracy and efficiency.
- Engineered advanced machine learning pipelines with TensorFlow and Python, automating data insights generation and enabling predictive analytics for business intelligence, which reduced decision-making latency.
- API's, NLP, LLM's, Docker, AWS, TensorFlow, GitHub

**Qult Technologies, Lahore**

Aug 2024 – Dec 2025

*AI/ML Engineer*

- Developed and fine-tuned LLMs (Llama 3.1 8B) for natural language understanding tasks, achieving a 20% improvement in model accuracy for text classification use cases.
- Automated end-to-end machine learning pipelines leveraging AWS services (Sage Maker, Lambda) and OpenAI tools to streamline workflows, ensuring scalability, efficiency, and quick deployment of ML solutions
- API's, NLP, LLM's, Docker, AWS, TensorFlow, GitHub

**BornGreat, California (Remote)**

Sep 2023 - Aug 2024

*Data Scientist*

- Extracted data from various social media platforms using Selenium and APIs, preprocessed and engineered features, and utilized NLP and LLMs for sentiment analysis to assess supply, demand, and competitor weaknesses.
- Deployed code on Github, leveraging Github Actions and CI/CD pipelines to automate the entire workflow, including testing and deployment processes, ensuring efficient and reliable operations.
- Developed and deployed a FastAPI application, creating a web application for model deployment and real-time data interaction, enhancing accessibility and usability of analytical insights.
- Selenium, APIs, NLP, LLMs, GitHub, GitHub Actions, CI/CD pipelines, FastAPI, Docker, TensorFlow.

**Spyresync, Lahore**

Jun 2022 - Aug 2022

*Python Developer (Intern)*

- Extracted and cleaned data from various sources, utilizing Python libraries to ensure data quality and relevance for analysis within Django-based websites.
- Developed interactive dashboards and visualizations to present complex data insights, enhancing user engagement and facilitating data-driven decision-making.
- Built and integrated machine learning models into web applications, leveraging Django to provide intelligent features and predictive analytics.
- Python, APIs, GitHub, Django, Scikit-learn

## Project Work

- **Medical Knowledge Based Agentic RAG System (2025):** utilized pretrained models and finetuned them on custom dataset to analyze medical reports, diagnose images (i.e. acne, rashes etc.) and API calling connected with Agents. Built agents with access to a real-time database and patient medical history, ensuring context-aware responses using RAG techniques. Moreover, handle user queries, schedule appointments via a calendar API, and fetch real-time data from a PostgreSQL database with zero hallucination. Finally deployed the whole project on docker. LangChain, Hugging Face, Docker, Pinecone, OpenAI's GPT-3.5-turbo, LLMs
- **RAG System using LangChain (2024):** Developed a QA system using LangChain, incorporating Hugging Face embeddings for semantic understanding, FAISS for efficient document retrieval, and OpenAI's GPT-3.5-turbo for generating context-based answers. LangChain, Hugging Face embeddings, FAISS, OpenAI's GPT-3.5-turbo.
- **Automated Summary Evaluator FYP (2023):** Collected and processed ADHD datasets from multiple NGOs to assess and score the content and wording of student summaries using large language models (LLMs) as regressors. Deployed and automated the solution on GitHub with CI/CD pipelines and utilized Docker to ensure consistent real-world execution. Technologies and tools used include Python, LLMs, GitHub, CI/CD pipelines, and Docker.

## Education

Lahore University of Management Sciences (LUMS)

Sept 2024 - Present

MSc. in Artificial Intelligence

National University of Computing and Emerging Sciences

Sep 2020 - Jun 2024

BSc. in Data Science

## Awards and Certificates

- **2<sup>nd</sup> Pos Genesis Hackathon Dubai:** Awarded for outstanding innovation and teamwork in delivering a high-impact AI project.
- **Exceptional Deputy Head (SOFTEC):** Recognized as Exceptional Deputy Head at SOFTEC for outstanding leadership and exceptional contributions to project success.
- Data Manipulation on DataCamp
- Joining Data with Pandas on DataCamp