

Talha Yunus



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[talhaty](https://github.com/talhaty)

Experience

Data Logic Solution

July '24 – Aug '25

Machine Learning Engineer

Remote, US

- Developed Chatterlytics.ai, a Business Analytics Copilot with Enterprise Privacy, empowering non-technical business users to independently perform ad hoc reporting and data visualization dashboarding while connecting multiple data platforms simultaneously from the Chatterlytics app.
- Created a Large Language Model (LLM) powered chatbot connected to the user's database, capable of querying the database and visualizing data in different chart formats.
- Developed dynamic dashboards allowing users to create, save, and organize favorite charts for a comprehensive view of business KPIs and metrics.
- Integrated conversational AI features, enabling users to ask questions and receive custom insights, queries, and visualizations on the fly.

ALT Ventures

Jun '23 – Jul '23

AI Intern

Lahore, PK

- Developed and deployed a versatile chatbot integrating internet functionalities, email automation, and document summarization using Langchain, Vector Database, RAG, Zapier, and Google API.
- Researched and fine-tuned AI models, including the integration of Roop for realistic deepfake video generation and RVC for voice cloning.

Keystone Consulting (Pvt.) Limited

Jun '23 – Mar '24

Software Engineer Intern

Islamabad, PK

- Developed an advanced business intelligence visualization application leveraging Natural Language Processing techniques, enhancing data interoperability, and decision-making processes.
- Integrated LangChain and OpenAI technologies, and authored multiple Python scripts to create a sophisticated chatbot interface, elevating user interaction and automating responses.

Projects

NLP-Powered Business Intelligence App (FYP) | React.js, Next.js, Flask, PostgreSQL, Firebase, Langchain, ChromaDB

- Developed a user-friendly web application based on NLP for data visualization and report generation, aimed at assisting non-technical users.
- Designed backend processes to generate the database schema and create vector embeddings for each table, storing these embeddings in a vector database.
- Utilized the vector database for similarity searches against user queries to extract relevant tables, addressing the LLM's prompt length limitations.
- Developed an agent using Langchain, integrating an LLM and custom tool to verify the correctness of SQL queries.
- Provided users with options to view SQL queries, tabular data, and visualize data through various charts. Users can save charts on different dashboards or create new ones.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)

2020-2024

Bachelor of Science in Computer Science (GPA: 3.3 / 4.0)

Swabi, KPK

Technical Skills

Languages: JavaScript, Python, C, C++

Technologies: React.js, FastApi, Flask, Express.js, Electron.js, TensorFlow, PyTorch, Keras, OpenCV, Hugging Face, LangChain, LangGraph, LlamaIndex, Ollama, Large Language Models (LLMs), RAG (Retrieval-Augmented Generation), Vector Databases, Zapier, OpenAI API, Google API, AWS, Google Cloud Platform, Docker, Terraform, Electron.js, GraphQL, RESTful APIs, WebSocket, Git, Github Actions

Concepts: Machine Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Reinforcement Learning, Computer Vision, AI Model Fine-tuning, Data Structures, Algorithms, API Design, Database Normalization, Cloud Computing, DevOps, Agile Methodology