Haiqa Sheraz Alhassan

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Artificial Intelligence Developer

Highly skilled AI developer with experience in **Retrieval Augmented Generation (RAG), Python programming, Machine Learning, Deep Learning and Chatbot development**. Have knowledge of popular frameworks such as **Langchain, LlamaIndex, Tensorflow and Pytorch** and experience with data analysis in **Tableau and PowerBI**.

EDUCATION

BS Artificial Intelligence   Karachi
FAST-NUCES   *September 2020 to June 2024*

A Levels   Jeddah
Pakistan International School   *2018 to 2020*

TECHNICAL SKILLS

General	:	OOP, Data Structures, Machine Learning, Data Analysis, Computer Vision, Natural Language Processing, Deep Learning, Chatbot development, Model deployment, Front-end development, Retrieval Augmented Generation
Languages	:	Python, C, C++, C#, HTML, CSS, PHP, SQL
Frameworks	:	Langchain, LlamaIndex, Tensorflow, Pytorch, Streamlit, Flask, GradientAI, FastAPI
Libraries	:	Pandas, Matplotlib, Numpy, Scikit-learn, Scipy, Seaborn
Databases	:	MongoDB, PHPMyAdmin
Dev Tools	:	Visual Studio Code, Google Colab, Microsoft Bot Framework, Microsoft Cognitive Services, Postman

EXPERIENCE

AI SOLUTIONS ENGINEER   July 2024 - December 2024
Imperium Dynamics

- Developed a bot using **Microsoft Bot Framework** that processes Teams meeting transcripts, generates summaries and action items, and is deployed on Azure with full integration into Microsoft Teams
- Worked on a **Products Search System** which allows users to search for information about products and usage. Input can be text, image, or voice and response is retrieved through **Azure Blob Storage**.
- Created a chat streaming application using **GPT-4 model**, with real-time text-to-speech conversion for responses powered by **Microsoft Cognitive Services**
- Learned to convert functions into **FastAPI endpoints**
- Developed a **Streamlit + RAG** application using Langchain, allowing users to upload PDFs or documents and ask queries related to the content.

ASSOCIATE CONSULTANT IN DATA & AI (INTERNSHIP)   October 2023 - December 2023
TheCoded

- Conducted Research on **Microsoft Copilot**
- Developed ML chatbot on medical applications

PROJECTS

FYP-Skintelligent   September 2023 - May 2024
AI Skincare Regime Generation System

- A smart solution for skincare enthusiasts who need guidance on the best products and routines for their unique skin needs

- Leveraging **LlamaIndex, Retrieval Augmented Generation techniques and Pytorch, Vision Transformer** assesses severity of acne and wrinkles on skin. This input, along with more features are fed to **LLM (Mistral-7B)** which generates user-tailored skincare regime

Product Visual Search System   November 2023
Computer Vision + Streamlit

- Developed a recommendation system for product and image suggestions from user inputs
- Integrated 50,000 image embeddings into **Pinecone**, using the **CLIP model** for retrieval

PDF Summarizer   February 2024
Generative AI (huggingface + streamlit)

- Utilizing summarization pipeline of **Lamini-Flan T5** with 248M parameters, used to generate precise summaries of any input PDF

Medical Chatbot   January 2024
LLM Finetuning (python + gradientai)

- An AI-powered interface that guides users with personalized medical advice, treatments, and precautions, just like a general physician
- Used the **Nouse-Hermes Llama2 model** from GradientAI, fine-tuned using a medical responses dataset from **HuggingFace**

Sentiment Analysis on Movie Reviews   May 2023
NLP + ML

- A system to classify movie reviews as positive, negative, or neutral
- Used **TF-IDF** for numeric representation, achieving 82.32% accuracy with Naive Bayes and 98.35% accuracy using **LSTM** after just five epochs

Website for NFT Marketplace   March 2022
Databases

- Created an interactive user interface with HTML and CSS, with **MySQL database** structure and PHP to securely connect the frontend and backend - buying, selling, and exploring NFTs

Global Terrorism Report   July 2023
Data Analysis (Tableau)

- Used visualization techniques including heatmaps, word-clouds, line graphs, and bar charts

CERTIFICATIONS / AWARDS

- **Dean's List (GPA: 3.81)**
  FAST-NUCES

- **Runner Up in Computer Vision Competition**
  AI-NEXUS FAST

- **Tensorflow Developer Professional Certificate**
  DeepLearning.ai

- **Data Science and Machine Learning Bootcamp**
  Udemy

LEADERSHIP ROLES

- **Media and Promotions Head**
  Fast Data Science Society

- **Media Content Co-Head**
  Procom-FAST