Muhammad Hamza Anjum

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WORK EXPERIENCE

ARTIFICIAL INTELLIGENCE ENGINEER

Skilled Zone

03/2023 - 10/2024 *Lahore*

Achievements/Tasks

- Proven ability to use methods like hyperparameter tuning, data cleaning, data preprocessing, feature engineering and selection, model training, validation, and evaluation, and Python scripting. These methods led to a 15% decrease in training time and a 10% increase in model accuracy.
- AWS ECR, EC2, a scalable and dependable cloud platform, was used to successfully containerize the web application and deploy it. This allowed the application to support a 100% increase in concurrent users while retaining excellent availability and performance.
- I have experience in various AI domains, including machine learning (ML), deep learning (DL), natural language processing (NLP), large language models (LLMs), and retrieval-augmented generation (RAG).

PERSONAL PROJECTS

HR Q&A With Advanced RAG

- HR Q&A: A Generative AI tool for automatic interview question generation, this system facilitates dynamic and context-aware interactions.
- End-to-end LLM and RAG project, using Python and OOP for data ingestion, validation, preprocessing, vector embeddings, and LLM models. Deployment is done using Ollama, ChromaDB, Flask, Streamlit, and AWS.

Research Paper Summarization

- An intelligent document summarization tool designed to condense text into meaningful, context-aware content.
- End-to-end LLM and RAG project, using Python and OOP for data ingestion, data validation, file processing, vector embeddings, and LLM models. Deployment is done using AstraDB, FastAPI, Streamlit, and AWS.

Hate Speech Detection with BERT

- End-to-end NLP Hugging Face using Python Script and OOP creates Data ingestion, data transformation, data validation, model trainer, model evaluation, and model pusher with Deployment Using Dockers, Mlflow, DVC, and AWS.
- Use BERT for initial processing, then fine-tune BERT to achieve over 95% accuracy.
- Followed CI/CD pipeline-based architecture and developed FastAPI.

EDUCATION

Bachelor's In Computer Science

COMSATS University Islamabad, Sahiwal Campus

09/2018 - 02/2023

SKILLS, LIBRARIES

Python | ML | DL | NLP | EDA | SQL | Data Cleaning | Data Visualization | Numpy | Feature Engineering | Feature Selection | Pandas | Matplotlib | Seaborn | Scikit-learn | Tensorflow | Keras | Flask | FastAPI | Gradio | Streamlit | Docker | Mlflow | DVC | Dagshub | MongoDB | Transformers | Transfer Learning | HuggingFace

CERTIFICATES

Artificial Intelligence from KavSkills

Python for Data Science, AI & Development from IBM

Developing AI Application with Python and Flask from IBM

TensorFlow Developer Professional Certificate from DeepLearning.AI

Google Cloud Certified Beginner: Introduction to Generative AI

Google Cloud Certified Professional Machine Learning Engineer

TOOLS

VS Code | Google Colab | Git | AWS | GCP | GitHub | Microsoft Office | Anaconda | Jupyter-Notebook