

MUHAMMAD SAIM

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Education

University of Management and Technology
Bachelors in Artificial Intelligence

May, 2021 - Present
Lahore, Pakistan

Professional Summary

I am pursuing a BS in AI as a student. I completed some projects using Machine Learning, Deep Learning by applying different algorithms on different datasets and Large Language Models (LLAMA-2 7b). I am learning Generative AI also. During my academic journey, I did some self-study in AI along-with curricular courses. During this journey, I made 7 different projects and keep on learning new skills.

Experience

Test.io (Remote)

Feb, 2023 - Present

Bug Testing

- Performed bug-testing of websites and mobile applications
- I worked for Quality Assurance of 4-8 applications
- Captured snaps and recorded videos for bugs
- And submitted it as a report.

Projects

Movie Recommendations System

Current

- Developed a user-based collaborative filtering recommendation system for movies using K-Nearest Neighbours classifier to recommend top-rated movies.
- Created an intuitive user interface for browsing and selecting movie recommendations.
- Implemented a feedback loop to continuously improve recommendation accuracy based on user input.

User Interaction Chatbot

Sep, 2023

- Uses NLP and OpenAI to understand and reply to user queries with context-aware, accurate answers.
- Employs AIML to engage in meaningful and adaptive conversations based on user inputs.
- Utilizes Neo4J to manage complex relationships within data, ensuring precise information retrieval.
- Provides seamless, real-time communication for an enhanced user experience.

Handwritten Character Recognition

March, 2024

- Utilizes a CNN model to train on handwritten character datasets, capturing spatial features effectively.
- Implements bidirectional LSTM to understand and process the sequential nature of handwritten characters.
- Accepts an image as input, preprocessing it for feature xtraction and analysis.
- Extracts and interprets the characters from the image, providing accurate and readable text output.

DocuLingo AI

Jun, 2024

- Reads and converts PDF files into manageable chunks for efficient handling.
- Generates embeddings from the chunks using the LLaMA2 7b model, capturing semantic meaning.
- Stores these embeddings in a vector database for quick retrieval and matching.
- Matches user queries with stored embeddings to provide accurate, context-aware answers.

Skills

Languages: Python, SQL, Bash, Neo4J

Data Science: Pandas, NumPy, Matplotlib

Machine Learning: Scikit-learn, GridSearchCV, RandomizedSearchCV

Deep Learning: TensorFlow, Keras, PyTorch

Generative AI: GPT-2, LLama2, GANs

Computer Vision: YOLO, Faster R-CNN, Tesseract, U-Net, Mask R-CNN