HAMZA MAHMOOD

Artificial Intelligence

+923349515497

@ mahmoodhamza1261@gmail.com

② linkedin.com/in/hamza-mahmood-47779b1b1/
② github.com/mahmoodhamza1261

SUMMARY

Results-driven Al specialist skilled in developing and optimizing machine learning and deep learning models. Proficient in data preprocessing, feature extraction, and enhancing model performance using frameworks like TensorFlow and PyTorch. Experienced in computer vision and natural language processing, focused on leveraging AI to solve complex problems.

EXPERIENCE

Feature Extraction & Business Intelligence Intern

Smart Moves Solutions

= 06/2023 - 09/2023 Pluearea, Islamabad

- Developed SQL queries and business intelligence reports that reduced data processing time by 20%
- Assisted in creating interactive dashboards for business performance analysis, resulting in a 15% improvement in decision-making speed

Deep Learning Animal Classifier

(Computer Vision - CNN - TensorFlow - Keras)

- Designed a CNN model with three convolutional layers, improving feature extraction and classification accuracy by 15%.
- Applied Adam optimizer and trained the model for 10 epochs, achieving an accuracy of 72% on test data, enhancing overall model performance by 20% compared to baseline models.
- Evaluated the model on 10,000 test images, achieving a test accuracy of 72%, reflecting the model's robustness in real-world applications.

News Ranking Classifier Developer

(NLP - Doc2Vec - Transformers - WebScraping)

- Developed a system to classify news articles into categories like Sports, Business, National, International, and Culture using NLP techniques, improving categorization accuracy by 30%
- Implemented a ranking mechanism that improved the relevance of prioritized news articles by 25%, increasing user engagement by 10%
- Utilized Doc2Vec and transformers, reducing the time to process news articles by 15%

News Research Tool Developer

(LLM - OPENAI - FAISS - pickle - streamlit)

- Developed a tool that processes over several news articles daily, reducing content analysis time by 25%
- Converted news articles into vector embeddings using OpenAI, achieving a 20% improvement in similarity search efficiency through FAISS indexing
- Used LangChain Retrieval QA With Sources Chain, improving the accuracy of information retrieval by 18%

EDUCATION

BS Computer Science

Air University

= 09/2020 - 06/2024

SKILLS

Scikit-learn	TensorFlow	Keras
PyTorch Statistical Analysis		
Data Visualization Data Analysis		
Git Github	Colab F	Python
Computer Vision Jupyter notebook		
Machine Learning MatplotLib		
Neural networks MySQL Server NIp		
Numpy Op	enCV Pand	as
Performance analysis Power BI		
Python We	eb Scraping	LLM
Scikit-Learn Seaborn Sql		
wavelet transform Streamlit		

FIND ME ONLINE



Linked in

https://www.linkedin.com/in/hamzamahmood-47779b1b1/



Git hub

https://github.com/mahmoodhamza1261



Project1 link

https://github.com/mahmoodhamza1261/Co mputerVision-CNN-tensorFlowanimalPrediction



Project 2 link

https://github.com/mahmoodhamza1261/NL P-NewsRankingClassifierSystem



Project3 link

https://github.com/mahmoodhamza1261/Py thon-LLM-OpenAI-News_research_tool_project

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