Reema Abdelrazeq
Data Scientist

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Summary

Data scientist with hands-on experience in deep learning, natural language processing, and LLM fine-tuning. Developed and optimized AI models for fraud detection, disaster classification, and text generation. Proficient in handling structured and unstructured data and implementing natural language processing and computer vision techniques. Good at leveraging tools such as Hugging Face models & datasets to solve complex problems.

Education

Bachelor of Data Science and AI, Tafila Technical University   **2020-2024**

GPA :87.5 (Excellent)

Experience

Umniah | Technical Support intern   **Aug 2023 – Oct 2023**

- Provided technical assistance to users by diagnosing hardware and software issues.
- Learned to prioritize and manage tasks efficiently
- Ensured that user requests and technical issues were addressed within established timelines.

Certificates & Courses

- Deep Learning with TensorFlow 2 | 356DataScience   **Nov 2024**
- Intro to machine learning | Kaggle   **Oct 2024**
- Intermediate machine learning | Kaggle   **Oct 2024**
- Intro to Gen AI & Prompt Engineering | Manara**:**   **Oct 2024**
- Introduction to AI and machine learning
- Deep learning fundamentals
- Computer Vision
- Introduction to generative AI technology
- GPTs and LLMs

- Stable diffusion

Skills

- Programming Languages: Python
- Machine Learning & Deep Learning Frameworks: TensorFlow, PyTorch, ScikitLearn
- Natural Language Processing: Hugging Face Transformers, NLTK
- Computer Vision: OpenCV
- Data Processing & Visualization: Pandas, NumPy, Matplotlib, Seaborn
- Soft Skills: Problem-solving, Analytical Thinking, attention to precise details.
- English: fluent

Projects

- **AI-Powered LinkedIn Post Generator [GitHub Repo]**

  - Developed an AI-based system that generates LinkedIn posts in Arabic and English with customizable lengths.
  - Collected and processed a small number of real LinkedIn posts, ensuring diversity in topics and writing style.
  - Used prompts to fine-tune LLaMA 3.2-90B through Groq API on these posts to enhance content generation accuracy and coherence.
  - Built a simple interactive Streamlit interface, allowing users to specify post length, topic, and language.

- **Credit Card Fraud Detection using Deep Learning [GitHub Repo]**

  - Designed and implemented a deep learning model to detect fraudulent credit card transactions using a highly imbalanced dataset.
  - The model was built with a neural network architecture in Keras, leveraging techniques such as class weight balancing and dropout to address overfitting.
  - The model achieved 99.99% accuracy on the training set and 99.95% accuracy on the test set.
  - Performance was evaluated through various metrics, including precision, recall, and F1-score, achieving impressive results in fraud detection.

- **Abstractive Dialogue Summarization Using T5 transformer [GitHub Repo]**

  - Developed a simple abstract text summarization model using the T5 transformer on the SamSum dataset.
  - Fine-tuned the model to generate concise summaries of dialogues, capturing key information while maintaining fluency and coherence.
  - Implemented tokenization, training, and evaluation using Hugging Face's transformers library, achieving significant improvements in summary generation.
  - Demonstrated the model's capability to summarize complex conversations into short but clear summaries.
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- **Natural Disaster Damage Identification from Satellite Images Using CNNs [GitHub Repo]**

- Built a Convolutional Neural Network (CNN) model for classifying natural disaster damage using satellite imagery.
- Applied data augmentation (rotation ,zoom, flipping) on the training dataset and addressed class imbalance through stratified splitting and class weights.
- Optimized the model using accuracy ,precision and recall metrics.
- Achieved an accuracy of 97% . And the model demonstrated real-world applicability by accurately identifying damage across various disaster types