Dulad Moussa **Nour**

Data Scientist

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EXPERIENCE

DATA SCIENTIST | Graduate internship

February 2023 - Present | Henceforth, Rabat, Morocco

- Automate the retrieval pipeline for testing 15 benchmark datasets using Pyserini.
- Implement state-of-the-art expansion methods using Prompt engineering techniques for better retrieving performance (up to 10%).
- Implement a novel expansion method with LLMs using embeddings.
- Fine-tune Llama-3 using LoRA and generated data with GPT-4.

Skills: Python. Pyserini. LLMs. LoRA. Azure DevOps

MACHINE LEARNING ENGINEER | Summer internship

June 2023 - September 2023 | International Travel, Tangier, Morocco

- Implemented a processing pipeline to automate data extraction.
- Fine-tuned YOLOv8 for object detection.
- Played with different image processing techniques for better OCR performance.

Skills: Python. OpenCV. PyTorch. TensorFlow. Deep Learning. Computer Vision

PRESIDENT OF ENSIAS BRIDGE | Extracurricular activities

June 2022 - June 2023

- Established and managed short and long-term goals for the club.
- Efficiently allocated budgets to support the club activities.
- Organized and led weekly meetings to assess project updates and adjust plans.
- Spearheaded the Survey project, collecting data and deriving insightful conclusions about the school's graduates.

Skills: Leadership. Communication. Teamwork. Management. Agile Methodologies • Data visualization • Info-graphics

PROJECTS

MOROCCAN SOCIAL MEDIA MONITORING | School project

Febraury 2023 - June 2023

- Collected and processed up to 20,000 Arabic comments using web scraping.
- Employed LDA and BERTopic for topic modeling to derive insightful conclusions from the dataset.
- Created data visualizations and dashboard to present the results effectively.

Skills: Python.TF-IDF. Pandas. BERTopic. PyArabic. Scrapy. Selenium

UNSUPERVISED GALAXY MORPHOLOGY CLASSIFICATION Research project

March 2023 - May 2023

- Implemented feature extraction using the VGG16 convolutional NN.
- Employed K-means, Agglomerative, and Fuzzy C-means clustering algorithms.
- Achieved a 73% accuracy rate with K-means clustering...
- Highlighted the potential for further research to enhance unsupervised learning in galaxy morphology classification.

Skills: Python · K-means · Agglomerative Clustering · Fuzzy C-means · Data Analysis · Data Visualization

EDUCATION

NATIONAL SCHOOL FOR COM-PUTER SCIENCE AND SYSTEM ANALYSIS | ENSIAS

Artificial Intelligence Engineering

September 2021 - Present

Machine Learning • Data Analysis • Deep Reinforcement Learning • Data science Computer Vision • Deep Learning • Big

Data • Time Series • Distributed systems

PREPARATORY CLASSES

September 2019 - June 2021 Linear Algebra • Probability • Algorithms Numerical Analysis • Data structures

SKILLS

TECHNICAL SKILLS

Python •SQL •Selenium •OpenCV

- Pytorch Tensorflow Scikit-learn
- PySpark Git Docker

SOFT SKILLS

Communication •Team work •Curiosity

LANGUAGES

English (IELTS 8.0) • Arabic • French

CERTIFICATIONS

March 2024

• Generative AI with Large Language Models @DeepLearning.ai

in progress

• Natural Language Processing Specialization @DeepLearning.ai

OTHER INTERESTS

- Writing articles about AI and Computer Science on **medium**
- Competitive Programming
- Teaching friends and relatives
- Mathematics
- Creating content
- Design & Infographics