HAMZA EL MAATAOUI

Data Science and AI Student Looking for internship PFE

✉ hamza.elmaataoui2023@gmail.com 📞 0603445703 in linkedin.com/in/hamza-el-maataoui ⚙ github.com/hamza-elesi

SKILLS

Programming Languages: Python (TensorFlow, Keras, scikit-learn), Java, SQL
Data Science: Machine Learning, Deep Learning, Time Series Analysis, NLP, Hugging Face
Tools and Software: RStudio, Docker, SPSS, Jira, Git
Databases: MySQL, MongoDB, Postgresql
Data Visualization / Manipulation: Matplotlib, Seaborn, Plotly, Power BI, SciPy, Pandas

EXPERIENCE

Haut Commissariat au Plan (HCP)   Jul 2024 – Sep 2024
Data Science Intern   *Laayoune, Morocco*
- Developed a web-based application for automating HR database queries using Natural Language Processing (NLP).
- Created an intuitive user interface using Streamlit , allowing HR personnel to interact with databases through natural language.
- Optimized database queries for faster retrieval and processing of HR data.

OCP-Phosboucraa   Jul 2023 – Aug 2023
Power BI Intern   *Laayoune, Morocco*
- Collected and cleaned large datasets related to phosphate production and sales.
- Designed and implemented interactive dashboards using Power BI to visualize key performance indicators.

PROJECTS

Tuberculosis Detection Using Deep Learning
- Developed a deep learning model (LeNet architecture) for detecting tuberculosis from chest X-ray images using the NIH Chest X-ray dataset.
- Implemented a user-friendly web application using Gradio for real-time tuberculosis detection.

Build an AI-Agent to Optimize SEO for Youtube channels
- Developed a pipeline to extract YouTube video comments using the YouTube API .
- Implemented an ETL process to store comment data in Amazon S3 and data orchestration using Apache Airflow .
- Integrated OpenAI's GPT model for sentiment analysis and SEO suggestions.
- Created a streamlit web application for user interaction and result visualization.

Power BI AI Assistant
- Developed an innovative AI-powered Power BI assistant using Python, OpenAI API, and Streamlit, integrating advanced data analysis and visualization recommendations
- Implemented automated DAX query generation using GPT-4
- Created comprehensive data quality analysis system with automated warehouse structure suggestions
- Built an interactive web interface allowing users to upload datasets, analyze data quality, generate DAX queries

EDUCATION

School of Information Science   Sept 2022 – Present
Engineer in Data Science and Knowledge Engineering   *Rabat, Morocco*
CPGE : Lissan Edin Ibn Khatib   Sept 2020 – Jun 2022
Classes Préparatoires (Mathematics and Physics)   *Laayoune, Morocco*

CERTIFICATIONS

DeepLearning.AI: Supervised Machine Learning   **Completed: May 2023**

IBM: Data Analysis with Python   **Completed: August 2023**

IBM: IBM Machine Learning Specialist - Professional   **Completed: March 2024**

LANGUAGES

English: Professional working proficiency (speaking, reading, and writing)
French: Professional working proficiency (speaking, reading, and writing)
Arabic: Native proficiency (speaking, reading, and writing)