

YOUNES SAOUABEDDINE

Data Engineering Student

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Casablanca, Morocco

Younes Saouabeddine



PROFESSIONAL EXPERIENCE

Generative AI Developer Intern | PFA

Berexia

June 2024 – August 2024

Casablanca, Morocco

- Development of a FastAPI API with an MVC architecture for Retrieval-Augmented Generation (RAG) on PDFs. Processing and storing PDFs in chunks in MongoDB under Docker. Integration of Qdrant for similarity search and use of open-source language models for contextual responses. Optimized design for scalability and efficiency.

FastAPI MongoDB Qdrant Docker Open Source LLMs HuggingFace

Data Pipeline and Analysis with Azure

Digiole

August 2024 – September 2024

Casablanca, Morocco

- Design of a data pipeline for ingesting data from an on-premise SQL server to Azure Data Lake Gen2 via Azure Data Factory. ETL transformations using Databricks and PySpark. Integration of Azure Synapse Analytics for data analysis and creation of Power BI dashboards. Secured with Azure Active Directory and Key Vault.

Azure Databricks PySpark Power BI SQL Server Azure Data Factory

PROJECTS

Technical Support Dashboard

Developed an interactive dashboard for tracking and analyzing support tickets, calculating resolution rates, and visualizing key performance indicators using Power BI, DAX, Excel, and SharePoint.

Power BI DAX Excel SharePoint

Intelligent Conversational Agent for Data Querying

Created a conversational agent for querying data from CSV and Excel files.

Langchain MySQL Streamlit HuggingFace Python

Facial Emotion Detection App

Developed an application to detect facial emotions in real time using a Convolutional Neural Network (CNN) and Haar Cascade Classifier from OpenCV.

CNN OpenCV TensorFlow Python

Breast Cancer Classification App

Built a Machine Learning application for classifying breast cancer using a Kaggle dataset, implementing advanced techniques and deploying the model with Flask.

Machine Learning Python Flask

NLP Application

Implemented an automatic spelling corrector in Python.

JEE Application

Developed a web application for locating fishing spots using JEE technologies.

PROFILE

Final year data engineering student at the National School of Applied Sciences of Al Hoceima, seeking a final year internship starting February 2025. Ready to contribute my skills and energy to innovative projects.

SKILLS

Programming Languages and OS

Python C/Java SE Java EE Linux Spring boot

Databases

Postgres Oracle SQL Server MySQL MongoDB Neo4j Cassandra Redis

Data Engineering

Apache Airflow Apache Kafka Apache Spark Hadoop Databricks ETL/ELT

Data Science/ML

NLP TensorFlow LangChain Scikit-Learn

Cloud Services

Azure Microsoft Fabric AWS

DevOps

Docker Kubernetes CI/CD

BI and Data Visualization

Power BI DAX Excel

EDUCATION

National School of Applied Sciences of Al Hoceima (ENSAH)

Data Engineering

2021–2025

Al Hoceima, Morocco

Final year data engineering student.

Ibn El Haytam High School

Baccalaureate in physics

2018–2019

Casablanca, Morocco

LANGUAGES

French
English
Arabic



INTERESTS

Data Engineering NLP Reading AI Research