

MHARZI AMINE

Data Science Student

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OP OUM RABII, Casablanca

aminemharzi



EXPERIENCE

Data Science Internship

PLENITUDE GROUP

April 2023 – June 2023 Fez, Morocco

- Developed a machine learning algorithm to recommend doctors based on illness criteria, availability, and location.
- Used NLP models to understand patients' needs in natural language and recommend suitable doctors.
- Set up PostgreSQL and PostGIS to optimize appointment recommendations based on geographic proximity.

Mobile Development Internship

MOBIARCHITECTS

April 2022 – June 2022 Casablanca, Morocco

- Created and configured a REST API with ASP.NET to provide booking services, tourist information, and recommendations.
- Utilized Flutter to develop intuitive and interactive interfaces optimized for E-Tourism user experience.

Web Development Internship

OCTOBOT-CONSULTING

May 2021 – June 2021 Fez, Morocco

- Developed hotel management features (booking, room management, client tracking) using PHP and integrated email invoice sending via SMTP.
- Used Bootstrap, HTML, and CSS to create a responsive and user-friendly interface, providing a seamless experience.

PROJECTS

Chatbot

- Created an article detailing the development of a chatbot for Alzheimer's using GPT-2.
- Fine-tuned the model for precise and adapted responses.

Automated RAG Data Pipeline with Airflow

- Designed and implemented an automated data pipeline for a Retrieval-Augmented Generation (RAG) system using Apache Airflow, ensuring seamless orchestration of tasks.
- Integrated Apache Kafka for real-time data ingestion, PySpark for large-scale preprocessing, and FAISS for efficient similarity search and embedding generation.
- Built a modular, scalable system to handle real-time data ingestion, preprocessing, and AI-powered query responses.

EDUCATION

Master in Intelligent Processing Systems

Mohammed V University - Rabat

September 2023 – June 2025

Professional License in Big Data and Artificial Intelligence

Mohammed V University - Rabat

September 2022 – June 2023

DUT in Business Intelligence

Higher School of Technology - Fez

September 2020 – June 2022

Baccalaureate in Physical Sciences

AbdelKarim Daoudi High school- Fez

September 2020 – June 2020

SKILLS

Machine Learning & AI

Scikit-learn, Keras, TensorFlow, NLP, ANN, CNN, KNN, K-means, RNN, GAN, DCGAN, ProGAN.

Big Data

HADOOP Ecosystem, Spark, Hive, Cassandra.

Business Intelligence

Talend, Data Warehouse, Data Mining, Power BI.

Database Management Systems

MySQL, Oracle, SQL Server, SQLite, MongoDB, Cassandra.

Programming Languages

C, Java, Python, Dart, R.

LANGUAGES

English (intermediate)

French (intermediate)

Arabic (Native)