AMINE EL GARDOUM

Data/AI Engineer

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in LinkedIn ○ GitHub 🌐 Portfolio

📍 Al Hoceima, Morocco

PROFILE

Data Engineering student with strong expertise in building data pipelines, orchestration, and Machine Learning. Passionate about modern data architecture (Medallion, RAG) and real-time processing with Kafka. Proven team collaboration skills. Seeking internship opportunities to contribute to ambitious data-driven initiatives.

EDUCATION

2nd Year in Data Engineering   2024 - 2025 (2nd year)
National School of Applied Sciences (ENSA), Al Hoceima
Specialized training in data engineering, Big Data, Machine Learning, and distributed architectures.

1st Year in Data Engineering Cycle   2023 - 2024 (1st year)
National School of Applied Sciences (ENSA), Al Hoceima
First year of engineering cycle with introduction to data technologies.

Integrated Preparatory Cycle   2021 - 2023
National School of Applied Sciences (ENSA), Al Hoceima
Strong foundation in Mathematics, Physics, and Computer Science (Algorithms, Python).

TECHNICAL SKILLS

Programming Languages
Python (Advanced), JavaScript (Intermediate), Java (Intermediate), Shell Scripting

Data Engineering & Big Data
Hadoop, Trino, dbt (Data Build Tool), Medallion Architecture, ETL/ELT, Apache Kafka (Streaming)

Orchestration & Workflow
Apache Airflow

Machine Learning & AI
Scikit-learn, TensorFlow/Keras, Classification Models, RAG Systems (Retrieval-Augmented Generation)

Backend & APIs
FastAPI

Frontend
React, Tailwind CSS

DevOps & Tools
Docker, Git, GitHub

Databases
SQL, NoSQL

KEY PROJECTS

Data Pipeline with Medallion Architecture - Stocks
2024

Designed and implemented a data pipeline using Medallion Architecture (Bronze, Silver, Gold) for processing and analyzing stock market data.

- Financial data collection and ingestion with Airflow orchestration
- Data transformation and modeling using dbt
- Layered architecture to optimize data quality and performance

Technologies: Python, Hadoop, Trino, Medallion Architecture

Real-Time Data Pipeline with Kafka - Stocks
2024

Developed a streaming system for real-time financial market analysis.

- Stock market data ingestion via Apache Kafka streams
- Real-time event processing and transformation
- Interactive dashboard for live data visualization

Technologies: Python, Apache Kafka, FastAPI, Tailwind CSS

Intelligent Chatbot with RAG for GitHub Repositories
2024

Built an intelligent chatbot using RAG systems to query and analyze GitHub repositories.

- Implemented RAG system for contextual information retrieval
- Integration with GitHub API for code extraction and indexing
- Intuitive and responsive conversational interface

Technologies: Python, FastAPI, RAG Systems, LangChain, React, GitHub

ML Classification Model for Heart Disease Prediction
2024

Developed a Machine Learning model to predict cardiovascular disease risks.

- Exploratory analysis and preprocessing of medical data
- Training and optimization of classification models (Random Forest, SVM, Neural Networks)
- Performance evaluation with metrics (Accuracy, Precision, Recall, F1-Score)

Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter

ADDITIONAL SKILLS

Mathematics for ML - Linear Algebra, Statistics, Probability
Shell Scripting - System automation and scripting
Soft Skills - Team collaboration, Communication, Project management

LANGUAGES

Arabic: Native
French: Fluent

English: Intermediate/Professional