

AMINE EL GARDOUM

Data Engineer & Machine Learning

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 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 (1nd 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, Data Warehousing

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, dbt, Airflow, 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, React, 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 API

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