

# AMINE EL GARDOUM

Data/AI Engineer

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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 (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, Data Warehousing

## KEY PROJECTS

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### 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

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**Mathematics for ML** - Linear Algebra, Statistics, Probability

**Shell Scripting** - System automation and scripting

**Soft Skills** - Team collaboration, Communication, Project management

## LANGUAGES

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**Arabic:** Native

**French:** Fluent

**English:** Intermediate/Professional