



Amine HAMOUCHI

Data & AI Engineer | Big Data · Machine Learning · LLMs

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Profile

M2 Big Data & IoT student specializing in **data engineering** and **AI**, with hands-on experience building data engineering pipelines, ML/NLP models, **model evaluation** and LLM evaluation platforms. Experienced with **Python**, **SQL**, Kafka, HBase/HDFS, MLflow, Docker and FastAPI. Seeking a Data/AI Engineering PFE starting January 2027.

Core Skills

Programming & Data Python, SQL, Pandas, NumPy, PostgreSQL, MongoDB, data engineering

Big Data Kafka, Hadoop/HDFS, HBase, data pipelines, stream processing

Machine Learning & AI scikit-learn, Deep Learning, NLP, AraBERT, LLMs, model evaluation

MLOps MLflow, Docker, Jenkins, Prometheus, Grafana, CI/CD, cloud computing

Backend FastAPI, Spring Boot, NestJS, REST APIs

Tools Git, n8n

Professional Experience

AI Crafters — LLM benchmarking & analytics platform

2026

Data & AI Engineer Intern

Casablanca, Morocco

- Built a **Python/FastAPI** benchmarking platform automating LLM experiment execution, reducing manual effort by 30% and improving reproducibility, while collecting TTFT, throughput and concurrency metrics for model/configuration comparisons.
- Analysed banking-workload results with **MLflow** and **Grafana** dashboards for **model evaluation** and configuration decisions.
- Containerized the stack with **Docker** so experiments and reporting were reproducible for the team.

Back2Revenge (B2R) — Esports Organization Platform

2026

Full-Stack Developer Intern

Morocco

- Led architecture of a **Turborepo** of five Next.js applications sharing authentication, navigation and a common design system.
- Implemented SSO, RBAC and PostgreSQL Row-Level Security; built **Spring Boot** and NestJS backend services for tournaments, teams, academy and e-commerce.

Selected Projects

CompTek — Big Data pipeline & anomaly detection

2026 – Present

Co-founded P2P gaming marketplace

Kafka, Python, HBase, HDFS, PostgreSQL

- Designed a **data engineering** pipeline with **Kafka**-based event ingestion for user clicks and marketplace activity.
- Implemented real-time **Python** processing, anomaly detection and scalable storage using **HBase/HDFS**.

Air Quality Prediction

Dec 2025 (2 months)

Python, scikit-learn, Random Forest — **Model evaluation** on the UCI air-quality dataset; trained a regression model for CO/NO₂, achieving $R^2 = 0.93$ (NO₂) and 0.88 (CO).

Arabic Sentiment Analysis

May 2026 (2 months)

NLP, TF-IDF, FastText, CNN/LSTM, AraBERT — Compared NLP classification models, reaching **0.815 macro F1** on tweets and **0.800** on reviews with AraBERT.

MLOps CI/CD Pipeline

May 2026 (2 months)

Jenkins, Docker, MLflow, Prometheus/Grafana — Implemented **CI/CD** workflows for ML model deployment with quality gates, drift detection and retraining, using an $F1 \geq 0.60$ deployment threshold.

Volunteering & Associations

Video Games Engineers (VGE) Club — Co-Founder & Event Manager

Jan 2026 – Present

Casablanca — Co-founded the club; led e-sport events, logistics and communications.

Media Manager — FSTE IT Club

Mar 2025 – Sep 2025 (6 months)

Errachidia — Visual and digital communications for campus tech activities.

Volunteer — Bahri Association

15 Mar 2026 (1 day)

Casablanca — Beach cleanup with Jeunes Leaders Marocains (JLM); **800 kg** of waste collected.

Education

École Nationale Supérieure des Arts et Métiers

2025 – Present

Master's in Big Data & IoT — M2

Casablanca, Morocco

Relevant coursework: Advanced Big Data, LLMs, Computer Vision, Deep Reinforcement Learning, Data Quality, BI, Cloud & Cybersecurity

Faculty of Science and Techniques

2024 – 2025

Bachelor's in Software Engineering

Errachidia, Morocco

Certifications, Languages & Interests

Certifications: Microsoft Azure Fundamentals (AZ-900) — cloud computing · MongoDB — From Relational Model (SQL) to Document Model **Languages:** English C1 · French B2 · Arabic C2 · Amazigh C2

Interests: Gaming · Table tennis · Football · VFX & motion · 3D design