

DATA SCIENTIST · CASABLANCA, MOROCCO

Abdellatif Belmady

Data Scientist Confirmé at AXA Assurance Maroc

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PROFILE

Data scientist and **École Centrale Casablanca** engineer (M.Sc. in Data Science & Digitalization). Since June 2026, **Data Scientist Confirmé at AXA Assurance Maroc**, working on a machine-learning project to detect fraud in auto insurance. Before that, two and a half years building AI products end to end: semantic search and manufacturing-time prediction, LLM agents, RAG chatbots and computer-vision applications, plus internships in France and Morocco in deep learning, object detection and industrial analytics.

EXPERIENCE

Data Scientist Confirmé

Jun 2026 – Present

AXA Assurance Maroc · Full-time · Casablanca, hybrid

- Working on a **machine-learning project to detect fraud in auto insurance**.

ML Engineer

Jul 2025 – Jun 2026

Wineo Artificial Intelligence · Full-time · Casablanca, hybrid

- Developed a **semantic search engine** over historical production data, cutting by **70%** the time needed to identify similar projects for an industrial client.
- Built a **real-time tracking application** for manufacturing components, ensuring complete traceability of the production flow between workshops.
- Created and trained **one machine-learning model per work centre** to predict manufacturing times, reaching over **85% accuracy (MAPE < 15%)**.

Data Scientist | AI Engineer

Jan 2024 – Jul 2025

The Game Changer Company · Full-time · Casablanca, on-site

Generative AI & data science

- Developed a **multi-stage AI agent** (LangGraph, GPT-4o-mini) that turns a project brief into tasks, dependencies, schedule, resources, risks and automatically generated **Gantt charts**.
- Built **QuizPhere**, a full-stack quiz generation platform (Groq, Llama 3.2, LangChain, FastAPI, PostgreSQL, React) with images found through DuckDuckGo Search.
- Developed a **RAG conversational assistant** for hackathon students (LangChain, Groq, Llama 3.1, ChromaDB), deployed with Docker behind REST endpoints.
- Set up a **local LLM platform** (Open WebUI, Ollama) with Stable Diffusion; built **Dash & Plotly dashboards**.

Computer vision

- **Face recognition** Flask application with e-mail alerts on unauthorised entry; **facial attribute analysis** (gender, age, emotion).
- **Object counting by region**, and **real-time people detection and counting** optimised for the NVIDIA Jetson Nano.

SKILLS

Languages & data

Python · SQL · PostgreSQL · MySQL · pandas · NumPy · C++ · Excel & VBA · Power BI

Machine learning

scikit-learn · Supervised learning · Ensemble stacking · K-NN · CART · Feature engineering · Model evaluation · Azure Machine Learning

Deep learning & vision

TensorFlow · Keras · PyTorch · CNNs · VGG16 · InceptionV3 · YOLO · Face analysis · NVIDIA Jetson Nano · Roboflow

Generative AI

LangChain · LangGraph · RAG · ChromaDB · Semantic search · Ollama · Open WebUI · Llama 3.x · Groq · GPT-4o-mini · Stable Diffusion

Engineering

FastAPI · Flask · Docker · REST APIs · React · Dash & Plotly · OVH Cloud · Git

EDUCATION

2020 – 2023

Centralien engineering degree · M.Sc. Data Science & Digitalization

École Centrale Casablanca

2018 – 2020

Preparatory classes · Physics, Chemistry & Engineering Science

Lycée Errazi, El Jadida

LANGUAGES

French

Full professional · DALF C1

English

Professional working · TOEIC 830/990

EXPERIENCE (CONTINUED)

Deep Learning Data Scientist · Internship
Apr – Sep 2023

Solefarma · Paris, France

- **Foot-type classification from heterogeneous pressure data**: fine-tuned VGG16 and InceptionV3 on images, K-NN and CART on numerical data, combined in a **stacking ensemble** deployed on OVH Cloud.

Computer Vision Data Scientist · Internship
Apr – Jul 2022

6 PERFORM · Saint-Cannat, France

- Led a project to **detect sources of infection in operating rooms**: built and annotated the image dataset with Roboflow.
- Trained **YOLOv4** object-detection models (surgical instruments, mask wearing, medical caps, earrings) and deployed them on the company's local servers.

Data Scientist · Internship
Aug 2021

VCR Sodalmou · Morocco

- Developed an **Excel/VBA application** to manage inventory more efficiently and accurately.
- Implemented a machine-learning model to identify and reduce waste on the production line, with recommendations to improve production efficiency.

ENTREPRENEURSHIP

Founder & CEO · Smart Correction
Dec 2023 – Jan 2024

AI-powered education platform giving French and Moroccan students personalised assistance, instant corrections and exam preparation.

Founder & CEO · Other Ways
Jan 2022 – Jan 2024

Intelligent camera services built on computer vision: access control, people tracking and counting, presence detection at workstations.

COMMUNITY & LEADERSHIP

Class of 2023 Ambassador · École Centrale Casablanca
Apr 2025 – Present

Connects students and young graduates with alumni, organises networking events and supports the school's careers unit.

Organising member · TechInnov Days & Spring School Data Science
2022

École Centrale Casablanca. Earlier, member of the Rotaract, CentraleComm' and Enactus student associations (2020 – 2021).

CERTIFICATIONS

Feb 2025
AI Agents Fundamentals
Hugging Face

Aug 2024
Getting Started with AI on Jetson Nano
NVIDIA

Nov 2023
TOEIC · 830/990
ETS

Oct 2022
DALF C1
Institut français

Jun 2022
Machine Learning · Python Data Structures
Sololearn

Mar 2022
Getting Started with Power BI Desktop
Coursera

Mar 2022
Web Development with HTML, CSS & JavaScript
Coursera

AWARDS

2022
2nd place · TechInnov Days poster session
École Centrale Casablanca

Dec 2021
2nd place · Centrale Coding Competition
École Centrale Casablanca