

OMAR AIT BOUHMAAD

Engineering Student — Data Science, Big Data & AI

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PROFESSIONAL PROFILE

Second-year engineering student specializing in Data Science, Big Data & AI (ENSA Agadir). Passionate about applying AI and data engineering to sustainability challenges, I am currently building an intelligent system to reduce vehicle emissions and enable greener driving. I am seeking a final-year project internship (PFE) where my skills in machine learning, predictive modeling and end-to-end data pipelines can deliver concrete impact.

TECHNICAL SKILLS

Languages: Python, Java, C, Matlab, JavaScript, SQL, PL/SQL

AI, Data & Modeling: PyTorch, TensorFlow, Scikit-learn, LLMs, RAG, LangChain, Pandas, NumPy

Data Engineering & BI: Hadoop, Spark, Kafka, SSIS, Power BI, Plotly Dash, Streamlit

Databases: Oracle DB, SQL, PostgreSQL, SQL Server, MySQL, MongoDB, Cassandra

Tools & Frameworks: FastAPI, Flask, Git, Docker, Linux, Hugging Face

EXPERIENCE & PROJECTS

Data Science & AI Intern

Jul. 2026 – Aug. 2026

Capgemini Engineering

Agadir

- Developing an intelligent system to reduce vehicle emissions and promote greener, more efficient driving using AI.
- Building end-to-end data pipelines (collection, processing, feature engineering) on driving and telemetry data.
- Training and evaluating machine learning models to predict emissions and recommend eco-driving behavior.

Handwriting OCR & Multimodal LLMs Intern

Jul. 2025 – Aug. 2025

NETALEK Services

Agadir

- Multimodal fine-tuning of LLaMA 3.2 Vision on the RIMES dataset for handwriting recognition.
- Compared LoRA vs Unsloth and deployed a real-time web prototyping interface.

Industrial Tomato Classification with CNN — ML & Vision Project

2026

- Implemented a Medallion pipeline and designed a CNN from scratch (TensorFlow, OpenCV).
- Processed and classified 5,000 images (Kaggle dataset) to automate sorting into 3 industrial grades.

IBM Projects — Falcon 9 Prediction & Generative AI

2025

- Falcon 9: built a complete pipeline (SpaceX API, web scraping, EDA) and compared 4 ML models (max accuracy 83.33%).
- Generative AI: designed a document QA RAG system and a chatbot optimized through prompt engineering.

Olist E-Commerce BI — Data Warehouse & Reporting

2025

- Modeled a Data Warehouse using a galaxy schema and built an automated ETL pipeline with SSIS.
- Developed interactive Power BI dashboards for strategic sales analysis.

EDUCATION & CERTIFICATIONS

Engineering Cycle — Data Science, Big Data & AI, ENSA Agadir

2024 – Present

Integrated Preparatory Classes, ENSA Agadir

2021 – 2024

Certifications: IBM Generative AI Engineering Professional (2025); IBM Data Science Professional (2025); Intro to Data Engineering (DeepLearning.AI × AWS, 2026).

ENGAGEMENT & LEADERSHIP

Co-Founder — AppsBuild Community

Oct. 2025 – Present

- Launched a collaborative space (AI and software development) with technical workshops, peer mentoring and project management.

Production Manager — ReMedic Box, INJAZ AI-Maghrib

Feb. 2024 – Jun. 2024

- Supervised an entrepreneurial healthcare project, managing deadlines and resources in an agile setup.