



MOHAMED AZIZ BELAMRI

Data Science & AI Engineer

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PROFESSIONAL SUMMARY

Data & AI Engineer with a strong background in machine learning, deep learning, and software engineering. Skilled in developing end-to-end intelligent systems using Python, TensorFlow, PyTorch, FastAPI, Django, React, and PostgreSQL. Experienced in creating scalable, secure applications that combine data analytics, automation, and predictive modeling. Passionate about leveraging AI to solve real-world challenges through API integration, model deployment, and MLOps practices.

TECHNICAL SKILLS

Programming & Frameworks : Python, Java, JavaScript, TypeScript, FastAPI, Django, React

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Keras, NLP, Computer Vision, Reinforcement Learning

Data & Databases: PostgreSQL, MySQL, MongoDB, Pandas, NumPy

Tools : Docker, Git/GitHub, Linux, VS Code, REST APIs

INTERNSHIPS

Data Science Intern

Inetum Jul 2024 - Sept 2024

- Contributed to data-driven automation initiatives and **AI-based validation** pipelines within enterprise systems.
- Supported the integration of **Dynamics 365** data using **SSIS** and **Python** scripts for analytics and reporting.
- Participated in cross-functional teams applying **machine learning techniques** to improve data quality and operational performance.

Artificial Intelligence Engineer (Graduation Project)

STE MAZDA Mar 2025 - Sept 2025

- Developed an **AI-driven smart lighting platform** integrating **machine learning** and **reinforcement learning** for predictive maintenance and adaptive control.
- Developed a modular architecture using **Django, React**, and **PostgreSQL**, integrating **Random Forest, Isolation Forest**, and **PPO agents** for predictive maintenance and adaptive control.
- Built data visualization dashboards, a **chatbot assistant**, and a custom simulator for real-time testing and system validation.
- Delivered a secure, scalable, and production-ready prototype aligning with EN 13201 safety standards.

AI & Full-Stack Development Intern

Tunisie Télécom Sept 2025 - Oct 2025

- Designed and developed an **AI-powered recruitment management platform** that automates candidate evaluation and job matching through advanced NLP models.
- Built and deployed a **FastAPI** backend with **PostgreSQL, SQLAlchemy**, and JWT-based authentication integrated into a **React + TypeScript** frontend.
- Applied **semantic similarity algorithms** using **Sentence Transformers** and **Cross Encoders** to enhance candidate-job relevance.
- Containerized the solution with **Docker** and implemented robust configuration, logging, and security middleware.

EDUCATION

Preparatory Cycle for Engineering Studies

Bachelor of Engineering in Data Science & AI Engineering

2018 - 2020

ISSAT Sousse

2020 - 2025

SESAME University

KEY PROJECTS

NutriGuide – AI Nutrition Information Assistant

- Designed a **RAG-based chatbot** delivering verified insights on nutrition and healthy eating from trusted sources (WHO, USDA).
- Built with **LangChain, FAISS**, and **Groq's LLaMA-3 API** for grounded, citation-based responses.
- Integrated a **FastAPI** backend, **Streamlit UI**, and non-medical disclaimers ensuring safe, responsible AI use.

Facial Emotion Detection System

- Developed a **real-time emotion recognition** model using **TensorFlow (VGG16)** and **OpenCV**.
- Implemented data logging, visualization, and emotion smoothing for consistent detection accuracy.
- Applied modular design and transfer learning principles for improved generalization and maintainability.

LANGUAGES

• **English** (Fluent)

• **French** (Proficient)

• **Arabic** (Native)