



Mohamed Ali Msadek

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PROFILE

AI Engineer experienced in deploying AI models from research to production environments. Skilled in LLMs, RAG, agentic AI, and MLOps to design end-to-end intelligent systems using modern frameworks. Driven to build scalable, data-driven solutions with measurable real-world impact. Available to start in March 2026.

EDUCATION

EURECOM

Master's in Data Science (Dual Degree Program)

Sophia Antipolis, France

Sep. 2024 – Mar. 2026

Relevant Courses: Machine Learning, Deep Learning, Generative AI, Database Systems, Probability & Statistics

Higher School of Communication of Tunis (Sup'Com)

ICT Engineering Student

Ariana, Tunisia

Sep. 2022 – Jun. 2025

Relevant Courses: Algorithms & Data Structures, Computer Systems, Network Architecture (RAN, 4G, 5G), Wireless Communications

Preparatory Institute for Engineering Studies

Pre-Engineering Studies

Monastir, Tunisia

Sep. 2020 – June 2022

Ranked among the **top 5%** of candidates in the national engineering competition.

SKILLS

- **Programming & Software Engineering:** Python, C++, SQL, REST APIs, Git/GitHub, CI/CD
- **Machine Learning & Deep Learning:** TensorFlow, PyTorch, Keras, XGBoost, OpenCV
- **Generative & LLM Systems:** Tokenization, Prompt Engineering, Fine-Tuning (LoRA, QLoRA, PEFT), RAG, LangChain, Vector Databases (FAISS, Chroma)
- **Deployment & MLOps:** FastAPI, Flask, Docker
- **Cloud & DevOps:** AWS SageMaker, GCP Vertex AI, Linux, GitHub Actions, Kubernetes
- **Agentic AI:** Multi-Agent Coordination (A2A), Tool-Orchestration, Model Context Protocol (MCP)
- **Database Technologies:** MySQL, PostgreSQL
- **Languages:** Arabic (Native), English (C1), French (C1)

EXPERIENCE

BubbleRAN

AI Engineer Intern

Sep. 2025 – Present

Biot, France

- Developing an **agentic AI solution** for predictive maintenance and anomaly detection within 5G O-RAN systems.
- Building an **end-to-end data pipeline** for training and real-time inference integrated with BubbleRAN's **Kubernetes cluster**.
- Fine-tuning and deploying deep learning models (**Transformers, LSTM**) for anomaly detection, forecasting, and explainability.
- Designing and integrating **AI agents** using the **A2A protocol** for autonomous coordination and explainable decision-making.
- Integrating all components into the **MX-AI platform**, serving as the primary developer of the end-to-end solution.

EURECOM

AI Research Intern

Jul. 2025 – Aug. 2025

Sophia Antipolis, France

- Developed an **LLM-based evaluation pipeline** using **prompt engineering (zero/few-shot)** and open-weight models (LLaMA, Mistral) to assess Wikidata reference reliability.
- Benchmarked model-human agreement and integrated the workflow with **LangChain** for evaluation automation.
- GitHub: https://github.com/dalimsadek/WD_references_analysis

Innodeep

Data Science Intern

Jun. 2023 – Aug. 2023

Monaco, France

- Built an end-to-end deep learning pipeline for mammogram tumor segmentation and classification using transfer learning.
- Deployed the solution on **AWS via Streamlit** and integrated **CI/CD** for automated retraining and **model drift detection**.
- GitHub: <https://github.com/dalimsadek/Breast-Cancer-Segmentation>

PROJECTS

Automation and RAG-based TinyML Code Tool | Python, LangChain, FAISS, LLMs, TinyML

Mar. 2025 – Jun. 2025

- Developed an **LLM-driven automation pipeline** integrating **Retrieval-Augmented Generation (RAG)** and **prompt engineering** for TinyML code generation and validation.
- Engineered a retrieval layer using **FAISS** and **LangChain** for context-aware code generation in embedded systems.

FMCW Radar-Based Gesture Detection | CNN, Python, Deep Learning

Apr. 2024 – Jun. 2024

- Built an **end-to-end CNN pipeline** for gesture recognition using 3D and 2D radar data, achieving 88% accuracy.
- Implemented data preprocessing and augmentation pipelines to enhance real-world generalization.

CERTIFICATIONS & INTERESTS

- **Certification:** Project Management Fundamentals
- **Public Speaking & Teaching:** Delivered private tutoring sessions in mathematics and programming; presented and explained AI solutions during hackathons.
- **Interests:** Passionate about **sports** and **traveling**, always seeking creative and cross-cultural collaboration experiences.