



Mohamed Ali Msadek

✉ Mohamed-Ali.Msadek@eurecom.fr  in/mohamed-ali-msadek  dalimsadek
☎ (+33) 7 60 75 59 72 📍 Antibes, France



PROFILE

AI Engineer with hands-on experience designing, deploying, and operating Machine and Deep Learning solutions in production environments, with a strong focus on industrial use cases. Experienced across the full MLOps lifecycle, from data collection and model training to deployment and monitoring, using Python, and cloud-native tools. Motivated by applying AI to real-world industrial systems and delivering reliable, scalable solutions.

EDUCATION

EURECOM — Master’s in Data Science (Dual-Degree) <i>Relevant Courses: Machine Learning, Deep Learning, Generative AI, Databases, Probability & Statistics</i>	Sophia Antipolis, France Sep. 2024 – Mar. 2026
Sup’Com — Telecommunications Engineering Degree <i>Focus: Computer Systems, Network Architecture (4G/5G), Wireless Communications</i>	Ariana, Tunisia Sep. 2022 – Jun. 2025
Preparatory Institute for Engineering Studies - Pre-Engineering Studies <i>Ranked among the top 5% in the national engineering entrance examination.</i>	Monastir, Tunisia Sep. 2020 – Jun. 2022

SKILLS

- **Core:** Python, SQL, Git, Linux, Docker
 - **Machine Learning:** CNNs, LSTM, Transformers
 - **Frameworks:** TensorFlow, PyTorch, OpenCV
 - **Applied AI:** LLM pipelines, Prompt Engineering, RAG
 - **Tools:** LangChain, FAISS, FastAPI, REST APIs
- **MLOps (Working Knowledge):** Kubernetes, CI/CD
 - **Cloud:** AWS SageMaker, GCP Vertex AI
 - **Databases:** PostgreSQL, MySQL
 - **Languages:** Arabic (Native), English (C1), French (C1)

EXPERIENCE

BubbleRAN <i>AI Engineer</i>	Biot, France Sep. 2025 – Present
<ul style="list-style-type: none">– Designed an AI-driven automation and anomaly detection pipeline for private 5G / Open RAN environments.– Built end-to-end data ingestion, preprocessing, and inference workflows over large-scale, multivariate operational KPIs.– Applied explainable ML models to characterize temporal and cross-layer anomaly patterns in production data.– Developed agent-based components for automated analysis and decision support.– Deployed and validated services in a cloud-native, Kubernetes-based platform, integrating automation into operational workflows.	

EURECOM <i>AI Research Intern (LLM Evaluation)</i>	Sophia Antipolis, France Jun. 2025 – Aug. 2025
<ul style="list-style-type: none">– Designed a scalable, automated evaluation pipeline to assess knowledge source reliability using LLMs.– Implemented benchmarking and comparison workflows to systematically evaluate model outputs against human judgments.– Built reproducible, version-controlled experimentation pipelines emphasizing evaluation rigor and automation.– Engineered the system for extensibility and CI-friendly experimentation across models and datasets.– GitHub: github.com/dalimsadek/WD_references_analysis	

Groupe SFM <i>Data Scientist</i>	Tunis, Tunisia Oct. 2023 – Mar. 2024
<ul style="list-style-type: none">– Contributed to an AI-driven optimization system for connected HVAC infrastructure in a smart building context.– Designed automated data engineering pipelines to process raw IoT sensor telemetry into analytical features.– Applied unsupervised learning (K-Means) to identify operational regimes and inefficiencies.– Developed visual analytics and reporting tools to support operational monitoring and optimization decisions.– Integrated models into repeatable workflows supporting deployment and ongoing system analysis.	

Innodeep <i>Data Scientist</i>	Monaco, France Jun. 2023 – Sep. 2023
<ul style="list-style-type: none">– Built an end-to-end deep learning pipeline for medical image segmentation and classification.– Implemented image preprocessing and augmentation using OpenCV to improve data quality and model robustness.– Applied transfer learning techniques to adapt pre-trained models to domain-specific datasets.– Deployed the solution on AWS with a Streamlit-based interface for result visualization and validation.– Implemented CI/CD workflows to automate retraining, validation, and basic model monitoring.	

PROJECTS

RAG-Based TinyML Code Automation Tool — Python, LangChain, FAISS, LLMs	Mar. 2025 – Jun. 2025
– Automation tool for generating and validating TinyML code for IoT and embedded devices using retrieval-augmented workflows.	
FMCW Radar-Based Gesture Recognition — CNN, Python, Deep Learning	Apr. 2024 – Jun. 2024
– Implemented a sensor-data processing and model training pipeline for gesture recognition using 2D and 3D radar data.	

CERTIFICATIONS & INTERESTS

- **Certification:** Project Management Fundamentals
- **Public Speaking & Teaching:** Private tutoring in mathematics and programming; technical presentations during hackathons
- **Interests:** Sports, travel, collaborative and cross-cultural projects