

MOHAMED AMINE EL ABIDI

Data & AI Engineer | RAG, Agents, Data Platforms & Software Engineering

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Data and AI Engineer building RAG applications, AI agents, data pipelines, and backend services. Worked with clients and product teams in France, the United Kingdom, and Morocco. Experience covers data ingestion, APIs, cloud deployment, and production support. Available for a PFE internship from Jan 2027.

PROFESSIONAL EXPERIENCE

Team Lead & Applied AI Engineer

JUL 2026 – PRESENT

ORANGE

Rabat, Morocco

- Lead a five-person engineering team at Orange developing an AI support assistant that combines RF-DETR Nano vision, OpenCV/HSV analysis, RAG, and multilingual voice guidance for network-equipment diagnosis.
- Define the FastAPI and React architecture, integrate AI services with PostgreSQL and MinIO, review code, and coordinate each demo release with the engineering team.

Skills & technologies: Python, RF-DETR Nano, ONNX, OpenCV, HSV, Vision AI, RAG, LiteLLM, voice AI, FastAPI, REST APIs, React, PostgreSQL, MinIO, Docker, Git

Data & AI Engineer, Freelance Part-Time

AUG 2025 – FEB 2026

UPFUND · CLIENT AI AND DATA PRODUCTS

Paris, France, Remote

- Developed Angular research and reporting features and connected them to Vertex AI, Firebase, and FastAPI services on GCP.
- Reduced cited real-estate research from 8 hours to 45 minutes and delivered a geospatial opportunity-scoring MVP for a Glovo client project in 10 days.
- Fixed production issues, built n8n lead-generation workflows, and turned client and sales-team requests into product changes.

Skills & technologies: Angular, TypeScript, GCP, Vertex AI, Firebase, FastAPI, REST APIs, GitHub, Python, RAG, Qdrant, PostgreSQL, PostGIS, H3, XGBoost, n8n

AI Agent Engineer, Intern

FEB 2025 – AUG 2025

VALHKO · ARYA

London, UK, Remote

- Built ARYA's six-agent workflow for job descriptions, skill extraction, candidate assignments, evaluation, scoring, and ranking.
- Developed the agent workflows and APIs with LangGraph, LangChain, and FastAPI, then helped deploy them to Azure with Docker and CI/CD.
- Worked with ML, frontend, and DevOps engineers and helped new interns understand the architecture and agent code.

Skills & technologies: Python, LLMs, multi-agent systems, LangGraph, LangChain, FastAPI, SQLAlchemy, Pydantic, PostgreSQL, Azure, Docker, GitHub Actions, CI/CD, Git

Data Analyst

AUG 2024 – OCT 2024

HAUT COMMISSARIAT AU PLAN · NATIONAL CENSUS 2024

Morocco

- Supported data-quality and validation workflows for National Census collection operations.

Skills & technologies: Data analysis, data quality, validation workflows

SELECTED PROJECTS

CasaMotion · Data Engineering & ML Capstone

2025 – 2026

- Co-developed a real-time urban mobility platform for Casablanca, turning GPS and trip streams into live rider-vehicle matching, demand forecasts, and operational dashboards.

Technologies: Python, Kafka, Flink, PySpark, Spark MLlib, Cassandra, MinIO, FastAPI, Grafana, Docker

LitFlow · AI Research Platform

2026 – PRESENT

- Built a research aggregation platform searching more than 200 million paper records across seven open APIs with asynchronous FastAPI services and a React interface.

Technologies: Python, FastAPI, React, REST APIs, asynchronous APIs, Docker

RAG Real Estate Document Assistant · AI Product Project

- Built a source-grounded document assistant that turns property files into searchable knowledge and returns cited answers through semantic retrieval.

Technologies: Python, FastAPI, Azure OpenAI, Qdrant, LangChain, Streamlit, Docker

EDUCATION

ENSAH · State Engineering Degree, Data Engineering

Sep 2024 – 2027

Classes Préparatoires · CPGE, Mathematics and Physics

Sep 2021 – Jul 2023

CERTIFICATIONS

AWS Certified Cloud Practitioner · Amazon Web Services

Valid until Aug 2028

Google Cloud Data Analytics Certificate · Google Cloud

Valid until Jan 2028

Engineer Data for Predictive Modeling with BigQuery ML Skill Badge · Google Cloud

2026

Google Data Analytics Professional Certificate · Google / Coursera

2024