

Mohamed Ifqir

AI&ML engineer

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About me!

I am a passionate AI/ML Engineer driven to build cutting-edge machine learning solutions and scalable full-stack applications. I specialize in computer vision, NLP, and LLM optimization, with a proven track record of deploying production systems. Combining my expertise in Python, React, and ML frameworks. I am eager to push the boundaries of AI technology and create impactful solutions. [More about me!](#)

Education

- Ms**

Artois university, M2 Artificial intelligence

Lens, France

Sept 2024 – Present

- **Coursework:** Machine learning, Deep learning, statistical analysis, Artificial intelligence, data science, data engineering.
- Ms**

ENSIAS, National School of Computer Science, AI engineering

Rabat, Morocco

Sept 2021 – July 2024

- GPA: 3.7/4.0
 - **Coursework:** Machine learning, Deep learning, Reinforcement learning, Data science, Data engineering, Big data, Data Analysis, Full stack development, Software Engineering, statistical analysis.

Experience

- Replit**, AI & ML Freelance Engineer

Remote

June 2024 – December 2024

- Delivered custom machine learning and AI solutions for diverse clients, specializing in computer vision and NLP applications with a rating of 4.9 star
 - Developed full-stack applications with React frontends, Python/Flask backends, and integrated custom generative AI solutions using LLMs
- Capgemini Engineering**, GenAI Engineer Intern

Casablanca, MA

February 2024 – June 2024

- Developed an AI-powered SysML/UML diagram generator using fine-tuned LLMs and PlantUML, reducing diagram creation time by 70%
 - Implemented end-to-end data pipeline with web scraping and preprocessing for domain-specific LLM fine-tuning, optimizing deployment with QLoRA quantization
- Central Lille**, AI Research Intern

Lille, France

Remote

July 2023 – August 2023

- Engineered an autonomous robot navigation system using advanced reinforcement learning (TD3), enabling efficient exploration and mapping of complex environments with reward function values reaching up to 80.07 on the scale of accuracy and precision
 - Implemented custom reward functions and neural network architectures to enhance environmental perception and adaptive learning capabilities
- Royal Aero Club of Marrakesh**, Software Engineering Intern

Marrakesh, Morocco

July 2022

- Engineered a robust full-stack aviation management system utilizing MySQL for backend data storage and Tkinter for user interface; enhanced real-time data synchronization, reducing manual entry time by 10 hours weekly.

Honors & Certifications

DeepLearning.AI TensorFlow Developer Professional Certificate


May 2024

Completed 4 courses including Deep Learning, CNNs, NLP, and Time Series

[Verify Certificate](#) 


Generative AI with Large Language Models

June 2024

DeepLearning.AI & AWS collaboration course [Verify Certificate](#) 

Deep Learning: Advanced Computer Vision

June 2024

GANs, SSD, and advanced CV techniques (Udemy) [View Certificate](#) 

EF SET English Certificate C2 Proficient Level (77/100) [View Certificate](#) 

Decemeber 2023

Projects

Farm.AI: Your trusty farming assistant

[@Farm.AI](#) 

- Developed Farm.AI, an agricultural management app integrating crop/dairy tracking with up to 97% model accuracy, AI-powered disease detection, and a multi-modal chatbot with voice recognition and automated detailed report generation using MongoDB
- **Tools Used:** Python, JavaScript, React js, Node js, Pytorch, TensorFlow, Hugging-Face.

APPL stock market analyzer

[@StockAnalyzer](#) 

- Built Kafka pipeline for real-time AAPL sentiment analysis, achieving 86.68% accuracy with Bi-LSTM
- Implemented hybrid LSTM for AAPL price prediction combining market and sentiment data, reaching 87% accuracy
- Designed InfluxDB/Grafana dashboards for stock and sentiment visualization
- **Tools Used:** Python, TensorFlow, Apache Kafka, InfluxDB, Grafana, Flask

A100: The AI story teller

[@A100](#) 

- Developed an interactive storytelling AI bot with knowledge graph-enhanced LLM capabilities and intuitive UI, achieving 70% ROUGE-1 precision after single epoch fine-tuning
- **Tools Used:** Python, Pytorch, HuggingFace, Neo4j, HTML, CSS, Flask.

Skills

Languages: Python, R, SQL, JavaScript, TypeScript, Java, C++, HTML/CSS, Bash

Frameworks & Libraries: PyTorch, TensorFlow, scikit-learn, Hugging Face, LangChain, React, Node.js, Flask, Django

Tools & Platforms: Docker, Git, Apache Spark, Hadoop, MongoDB, PostgreSQL

ML & Data: LLMs, Neural Networks, NLP, Computer Vision, Statistical Analysis, ETL, Data Pipeline Design, Model Deployment

Languages

Arabic: Native speaker

English: C2 Proficient (EF SET Certified)

French: C1 Advanced (Certified via TCF TP)