Youssef Moutaouakkil

Data Scientist & MLOps Engineer

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Profile

Data Scientist & MLOps Engineer with 2+ years of experience specializing in enterprise AI solutions and production ML systems. Proven track record in developing and deploying end-to-end data pipelines and scalable ML architectures for leading management consulting firms including BCG and PwC. Experience spans MLOps infrastructure, multimodal document processing, RAG-based knowledge systems, and custom LLM fine-tuning, delivering solutions that transformed manual workflows and drove significant business value across diverse industry use cases.

Professional Experience

Data Scientist 2022 - present

Infomineo ≥

Founding member of the Data Analytics department, spearheaded end-to-end AI and data science initiatives for initial clients including Fortune 500, delivering solutions from proof-of-concept to production:

- Architected a multimodal document processing system leveraging Vision-Language models combined with specialized OCR pipelines to extract and normalize financial data from 10,000+ heterogeneous documents in multiple languages and formats, implementing an ${\bf active}\ {\bf learning}$ framework with user feedback loop that reduced a 6-month manual process to 1 month, deployed as a scalable microservice architecture using FastAPI backend, React frontend, and GCP Kubernetes Engine with Cloud Storage for document management and Cloud Functions for on-demand processing
- Implemented DPO fine-tuning on OS LLM with industry-specific datasets, leveraging HF and W&B, transforming a 2-month manual data processing workflow into a 2-week automated solution with integrated quality checks.
- Developed an automated internal market intelligence platform implementing NLP pipelines for entity extraction and sentiment analysis, utilizing Playwright for robust web scraping, with Airfloworchestrated ETL pipelines deployed on GCP, featuring real-time analytics dashboards that auto-update via cron jobs and advanced semantic search functionality using RAG architecture, VectorDB and Google's Grounding techniques, enabling daily processing and analysis of 100GB+ unstructured market data.

Data Scientist - Intern 2022

Mohammed VI Polytechnic University ≥

Designed and implemented an end-to-end Computer Vision based mobile application (From Model training to Mobile application) that significantly increased the collection and quality of snow depth data.

Education

Masters. Industrial Engineering, Data Science Focus

Specialized in Process Optimization, ML Systems Design, Industrial IoT Data Integration & engineering, Pipeline Architecture...

CPGE - Prepa Math-Physics

• Intensive undergraduate program for competitive entrance exams into top French/Moroccan engineering schools.

Courses in mathematics, physics, computer science, Algorithms, Advanced Calculus, Topology, Thermodynamics...

Languages

English	French	Arabic
Bilingual	Bilingual	Native

Skills

Tools:

- Python, C++, Bash
- Scikit-learn, PyTorch, SQL, Git, Docker, Kubernetes, FastAPI, Spark
- Cloud (Mostly GCP & AWS)

Technical knowledge:

- Deep learning : NLP, LLMs & Computer Vision
- Machine Learning (Supervised & Unsupervised)
- A/B testing & Statistical Analysis
- MLOps & CI/CD

Certificates

• Tensorflow Developer ∂

ullet Deep Learning and Neural networks ${\mathscr O}$

Projects

ModelMe AI: Professional Imagery via Fine-Tuning ℰ

Professional photo AI generator where you upload your own images and a custom model is trained on it

Ask your PDF: Streamlit-integrated RAG Assistant $\mathscr D$

Streamlit-based RAG for Document Q&A: Upload PDFs, Automoatically embed content into a vector database, and use your OpenAI key for AI-powered search and answers.