NOURDDINE Othmane
Data Scientist / ML Engineer

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EDUCATION

National Institute of Statistics and Applied Economics (INSEA) — Rabat, Morocco
Master's in Intelligent Information Systems (M2SI) — *In Progress*

Higher School of Technology, Ibn Tofail University — Kénitra, Morocco
Professional Bachelor's in Computer Engineering — *2023–2024*

Higher School of Technology, Ibn Tofail University — Kénitra, Morocco
DUT Computer Engineering — *2021–2023*

Ibn Zeidoun High School — Sidi Yahya El Gharb
Baccalaureate in Physical Sciences with French Option — *2020*

CERTIFICATIONS

Machine Learning A-Z: AI, Python & R + ChatGPT Prize [2025] - Udemy

Microsoft AI & ML Engineering Professional Certificate - Coursera (in progress)

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

Oracle Cloud Infrastructure 2025 Certified Data Science Professional

AWS Cloud Technical Essentials - Coursera

PROFESSIONAL EXPERIENCE

VPI INFO — Kénitra, Morocco
Full-Stack Developer — *April – June 2024*
– Developed project management application using MEVN stack with real-time collaborative features

Terabyte Software — Kénitra, Morocco
Full-Stack Developer - Conversational Systems — *April – June 2023*
– Built real-time communication platform with PHP WebSocket messaging features

Faculty of Sciences, Ibn Tofail University — Kénitra, Morocco
Software Developer - Educational Systems — *June – July 2022*
– Designed intuitive user interfaces for classroom reservation management

TECHNICAL SKILLS

Machine Learning & AI: PyTorch, TensorFlow, Scikit-learn, XGBoost, Hugging Face, OpenCV, YOLO v5, MLflow

Programming & Development: Python (FastAPI, Flask), JavaScript (Next.js, React.js, Node.js, Vue.js), SQL

Data Science & NLP: Pandas, NumPy, LangChain, NLTK, spaCy, RAG Systems, Vector Embeddings (FAISS), Fine-tuning LLMs

Cloud & DevOps: AWS, Azure, Google Cloud, Docker, Kubernetes, Apache Airflow, Git, CI/CD, Model Deployment

Databases & Visualization: PostgreSQL, MongoDB, Redis, Looker Studio, Streamlit

AI & MACHINE LEARNING PROJECTS

PDF Sage - Production RAG Chatbot (FastAPI, React, PostgreSQL): Built production-ready RAG chatbot with agentic reasoning, vector embeddings (FAISS), and Docker deployment

Intelligent Customer Analytics Platform - Moroccan Banking Sector: Developed complete NLP pipeline for sentiment analysis with PostgreSQL data warehouse, automated ETL with Apache Airflow, and Looker Studio dashboards

VoxEase: AI Educational Assistant (Flutter, FastAPI, MongoDB): Created intelligent audio generation system using Google TTS with conversational interface and voice command recognition

AtlasCare - Intelligent Hospital Management System - Code ESI Hackathon: Collaborated with 3-member team to build AI system with 4 ML models for patient volume prediction, absence prediction, priority scoring, and waiting time estimation

ADDITIONAL QUALIFICATIONS

Languages: Arabic (Native), French (Fluent), English (Professional)

Soft Skills: Proactive, Motivated, Team player, Problem-solving

Specializations: Explainable AI, Multi-Agent Systems, Computer Vision, RAG Systems

Research Interests: Autonomous Agents, Generative AI, Conversational AI