



NOURDDINE Othmane

Data Scientist / Ingénieur ML

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🌐 othamane.github.io/portfolio-website/

EDUCATION

National Institute of Statistics and Applied Economics (INSEA) <i>Master's in Intelligent Information Systems (M2SI)</i>	Rabat, Morocco 2024 - In Progress
Higher School of Technology, Ibn Tofail University <i>Professional Bachelor's in Computer Engineering</i>	Kénitra, Morocco 2023-2024
Higher School of Technology, Ibn Tofail University <i>DUT Computer Engineering</i>	Kénitra, Morocco 2021-2023
Ibn Zeidoun High School <i>Baccalaureate in Physical Sciences with French Option</i>	Sidi Yahya El Gharb 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 <i>Full-Stack Developer</i> – Developed project management application using MEVN stack with real-time collaborative features	Kénitra, Morocco April – June 2024
Terabyte Software <i>Full-Stack Developer - Conversational Systems</i> – Built real-time communication platform with PHP WebSocket messaging features	Kénitra, Morocco April – June 2023
Faculty of Sciences, Ibn Tofail University <i>Software Developer - Educational Systems</i> – Designed intuitive user interfaces for classroom reservation management	Kénitra, Morocco June – July 2022

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