

OTMANE EL BOURKI

Artificial Intelligence Engineer

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PROFESSIONAL OBJECTIVE

Artificial Intelligence Engineer / Generative AI Specialist with expertise in **LLMs, multi-agent systems, and production ML pipelines**. Demonstrated success in developing sophisticated AI solutions that leverage autonomous agents, RAG systems, and fine-tuned language models to solve real business challenges. Combining deep technical knowledge with practical implementation experience across financial and hospitality sectors. Seeking a challenging role to apply my specialized expertise in generative AI architectures while driving innovation in agent-based systems that deliver measurable business impact.

SKILLS

AI & ML: Deep Learning, NLP, Computer Vision, LLMs, RAG, GANs, Reinforcement Learning, Fine-tuning, Prompt Engineering, PyTorch, TensorFlow

Multiagent Systems: LangGraph, Autogen, Crew AI, Agent Coordination, Hierarchical agents, Distributed AI

Infrastructure & MLOps: AWS, GCP, Docker, Kubernetes, MLflow, CI/CD, Data Pipelines, Git, DVC, Cloud AI Services, Model Deployment

Development: Python, C, C++, APIs, SQL, NoSQL, Vector databases, Microservices, FastAPI, Django

Soft Skills: Analysis, Problem-solving, Adaptability, Critical thinking, Communication, Collaboration, Continuous learning

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

EXPERIENCE

Artificial Intelligence Engineer

Impactera – AI Solutions for Finance 🌐

Feb 2025 – Present

Paris, France

- **AI Agents Platform:** Developed an AI-powered platform using autonomous agents to integrate internal systems (Tagetik, document repositories) with external APIs, providing real-time insights and predictive analytics.
- **Executive Communication Solution:** Created an AI agent-driven executive communication solution to aggregate and analyze economic and financial data daily, facilitating strategic decision-making at the C-suite level.

Artificial Intelligence Engineer

Tetricks – AI-powered Hospitality Solutions 🌐

June 2023 – June 2024

Remote (Morocco) - Palaiseau, France

- **RAG Chatbot & GCP:** Chatbot with open-source LLMs and vector databases on GCP Cloud Run, optimized to reduce latency via advanced monitoring and caching.
- **VLM Pipeline:** High-availability VLM system (99.9%) for automatic hotel room descriptions via Flask API, reducing operational costs by 47%.
- **LLM Optimization:** 3× faster inferences through distillation/quantization and email processing system via LangChain outperforming regex approaches by 60%.

Machine Learning Engineer

Computer Science Department of Ibn Tofail – Research Institution 🌐

Feb 2022 – July 2022

Kenitra, Morocco

- **Deep learning research for emotion recognition:** Development of a model achieving 85-90% accuracy, with robustness improved by 20% through data augmentation and dropout.

KEY PROJECTS

🌐 Medical RAG Chatbot | RAG, Meditron 7B

- Medical QA application using Meditron 7B LLM
- Led 3 students; deployed GPU w/ Docker.

🌐 Kidney Disease Classification | AWS, MLOps

- Medical diagnostic system (94% accuracy)
- CI/CD pipelines via GitHub Actions, A/B testing

EDUCATION

IT Architecture Expert — (RNCP39774, Level 7)

École 42 Paris — École 1337 Benguerir — 42 Network 🌐

Oct 2019 – 2025

Paris, France

- Globally recognized program (WURI 2023: 6th most innovative university, 1st in ethical value).
- Peer-to-peer and project-based training, without lectures, developing autonomy and IT expertise.

Master's in Artificial Intelligence — (Bac + 5, with honors)

Ibn Tofail University 🌐

Oct 2022 – Aug 2024

Kenitra, Morocco

- Focus: Advanced ML, Computer Vision, NLP, Image Processing, Reinforcement Learning.

Bachelor's in Mathematics and Computer Science — (Bac + 3)

Ibn Tofail University 🌐

Sep 2018 – Jul 2022

Kenitra, Morocco

- Solid foundation in Data Structures, Algorithms, Software Engineering and applied mathematics.

CERTIFICATIONS

Winter School Generative AI - Ecole Centrale Casablanca (03/2024), Practical Data Science - AWS (04/2022), ML with scikit-learn - Inria (07/2021), TensorFlow Developer - Deeplearning.ai (10/2020)