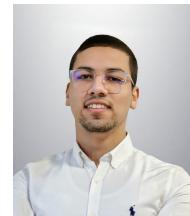


Mohamed Ouchene

Data & AI Engineer – Seeking Full-time Position



📞 +33 7 43 01 70 04 • 📩 ouchene.mohamed076@gmail.com

LinkedIn Mohamed OUCHENE • 🌐 Portfolio

📍 Nancy, France • 🌎 Open to relocation in France, Luxembourg, Belgium, and internationally

🚗 Driving License B

Profile

Double degree engineer in Digital Systems Engineering and Data Science, with a strong background in applied mathematics and computer science. Curious, autonomous and highly motivated, I am eager to contribute to AI and optimization projects with a high technological impact.

Professional Experience

R&D Engineer in Optimization & AI – CESI LINEACT, Nancy, France

March – September 2025

- Development of multi-objective optimization algorithms for electric vehicle charging under uncertainty, reducing energy costs by 17%.
- Integration of reinforcement learning for real-time scheduling.
- Scientific paper drafting and automation of development workflows.

Tech: C++, Python, LaTeX, Git

Data Scientist – Urbanloop, Nancy, France

June – September 2024

- Designed a real-time obstacle detection system for autonomous capsule vehicles based on multi-sensor data fusion.

Tech: Python (PyTorch, OpenCV), Git

Digital Transformation Engineer – Municipality of Zaio, Morocco

June – August 2023

- Developed a digital workflow tool reducing administrative processing time.
- Automated and digitized internal processes.

Tech: VBA, Excel, Power BI

Projects

Internal Chatbot

October 2024 – March 2025

AI-based conversational agent supporting students and reducing support workload.

Tech: Python (Deep Learning, NLP), JSON, Git

ASL Image Classification

September – December 2024

Designed and trained a CNN model achieving 95% accuracy on American Sign Language gesture recognition.

Tech: Python (TensorFlow, ML), Git

Employee Data Management System

October 2023 – April 2024

Developed a Python interface connected to MySQL for centralized employee data management.

Tech: Flask, MySQL Connector

Education

University of Lorraine – MSc in Mathematical Engineering for Data Science

2024–2025

Statistical modeling, machine/deep/reinforcement learning, data visualization.

INP-ENSEM Nancy – Engineering Degree in Digital Systems

2022–2025

Applied mathematics, algorithms, programming, databases, system engineering, embedded systems, networking, signal & image processing, reliability engineering.

CPGE MPSI – Preparatory Classes for French Engineering Schools, Rabat, Morocco

2020–2022

Mathematics, Physics, Engineering Sciences, Computer Science.

Skills

Languages: French (bilingual), Arabic (bilingual), English (B2)

Soft Skills: Project management, problem solving, autonomy, teamwork

Technical Skills:

Programming: Python, C/C++, Java, Matlab, R

Databases / Cloud: SQL/MySQL, MongoDB, AWS

Tools / Frameworks: Docker, Dataiku, Flask, Microsoft Office, Power BI, LaTeX

Other Activities

Volunteering: Student mentoring and educational support

Interests: Reading (science, personal development), bodybuilding, boxing, football