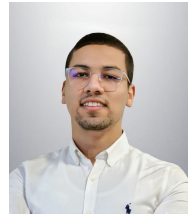


# Mohamed Ouchene

## Data & AI Engineer – Seeking Full-time Position

☎ +33 7 43 01 70 04 • ✉ [ouchene.mohamed076@gmail.com](mailto:ouchene.mohamed076@gmail.com)  
🏠 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