Mohamed OUCHENE

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Profile

Recent dual-degree graduate in Digital Systems Engineering and Data Science. Strong foundation in software development, machine learning, and optimization with hands-on experience in R&D and data-driven projects. Seeking opportunities to contribute to impactful technology initiatives.

Experience

Mar–Sep 2025 – R&D Intern – CESI LINEACT, Nancy, France

- Optimized electric vehicle charging strategies under uncertainty in constrained environments.
- Applied multi-objective optimization and reinforcement learning for adaptive scheduling.
- **Tech:** C++, Python

Jun–Sep 2024 – Data Science Intern – Saham Assurance, Nador, Morocco

- Built a fraud detection system for insurance claims using machine learning.
- **Tech:** Python, MS Office

Jun–Aug 2023 – IT Intern – Municipality of Zaio, Morocco

- Designed a digital interface to support administrative workflows.
- Automated reporting processes and digitized records.
- **Tech:** VBA, MS Office

Projects

2024–2025 – Educational Chatbot Developed an AI-based chatbot (NLP, deep learning) to provide automated learning support to engineering students.

2022–2023 – LEGO EV3 Robots Implemented path optimization (travelling salesman problem) using algorithms in Python and Matlab.

Education

2024–2025 – INP-ENSEM & FST, Nancy, France Dual degree: Engineering Diploma in Digital Systems & MSc in Data Science. *Focus:* Statistics, databases, supervised/unsupervised learning, deep learning, reinforcement learning, data visualization.

2022–2025 – INP-ENSEM, Nancy, France Engineering program in Digital Systems. *Focus:* Applied mathematics, algorithms, embedded systems, networks, automation, signal & image processing, reliability.

2020–2022 – CPGE MPSI, Oujda/Rabat, Morocco Intensive preparatory classes in mathematics, physics, engineering, and computer science.

2019–2020 – Scientific Baccalaureate – Mathematics major, Highest Honors, Nador, Morocco

Skills

Programming: Python, C/C++, Java, Matlab, R, SQL/NoSQL, HTML/CSS
Tools: Power BI, MS Office, LaTeX
Languages: French (native), Arabic (native), English (B2)
Soft skills: Teamwork, autonomy, adaptability, problem-solving