

AMINE EL MOUMEN

Computer Science & Networks Engineering Student — Artificial Intelligence & Data Science

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PROFILE

Final-year computer engineering student specializing in Artificial Intelligence and Data Science at EMSI Marrakech. Skilled in full-stack development (Java, Python, C#, JavaScript) and database technologies, with hands-on project experience in machine learning, NLP, and distributed systems for intrusion detection. Looking to bring strong software engineering and analytical skills to a 6-month PFE at the Oracle Morocco R&D Center.

SKILLS

Programming Languages: Java, Python, C/C++, C#, JavaScript, PHP, SQL/PL-SQL

Databases & Administration: Oracle Database Administration, SQL Server, MySQL, MongoDB, NoSQL

Web & Mobile Development: HTML, CSS, React.js, Node.js, Laravel, .NET, Android Studio

AI & Data Science: Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI, Distributed AI & Multi-Agent Systems, Big Data

Cloud & Systems: Cloud Virtualization, Unix/Linux Administration, Git/GitHub

Tools & Frameworks: FastAPI, OpenAI API, Jupyter Notebook, Scikit-learn, Pandas, Matplotlib, VS Code

EDUCATION

Engineering Degree — Computer Science & Networks, AI & Data Science Track — EMSI (Moroccan School of Engineering Sciences), Marrakech | Expected graduation: 2027

Relevant coursework: Oracle Database Administration, NoSQL, Cloud Computing & Virtualization, Machine Learning, Deep Learning, Distributed AI & Multi-Agent Systems, Generative AI, Natural Language Processing, Computer Vision, Big Data Ecosystems

Integrated Preparatory Cycle — EMSI, Marrakech
Scientific Baccalaureate

PROFESSIONAL EXPERIENCE

Web Development Intern — Southhydraulic

- Contributed to an innovative web platform for managing hydraulic engineering projects, built with Laravel, React, and MySQL
- Implemented new features within a three-tier, role-based access architecture
- Improved interface design and interaction flow to enhance user experience and application performance

Information Systems Intern — Clinique La Vallée, Tamesna

- Assisted in redesigning the clinic's information system
- Analyzed user requirements and defined functionalities for the future system
- Collaborated with the IT team to formalize requirements and finalize the project design

ACADEMIC PROJECTS

Auto-ML Intrusion Detection System — Distributed Microservices Architecture

Designed a real-time network intrusion detection system combining online machine learning with a distributed microservices architecture (Data Mining coursework project).

Mental Health Prediction via Behavioral Language Analysis

Built an AI application analyzing social media users' language behavior to predict mental health indicators (NLP / applied AI project).

DiabPredict — Diabetes Risk Prediction Model

Developed a predictive machine learning model from medical data with a data visualization interface. Tools: Python, Pandas, Scikit-learn, Matplotlib, Jupyter Notebook.

A.S.I.I.S — Intelligent Learning Assistant Platform

Built a learning platform with an AI assistant for Q&A, personalized recommendations, and progress tracking. Tools: Python, FastAPI, OpenAI API.

AMSAhub — Job Search & Recruitment Platform

Developed a web platform connecting job seekers with recruiters. Tools: React.js, Node.js, MongoDB.

EXTRACURRICULAR ACTIVITIES

- Active Member, IEEE Student Branch — EMSI Marrakech
- Active Member, IEEE

LANGUAGES

Arabic (Native) • French (Intermediate) • English (Intermediate) • Russian (Beginner)