Mohamed Ayoub El Mousati

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Education

Université Mohammed VI des Sciences et de la Santé (UM6SS) Casablanca, Morocco
Software Engineering – AI Focused Expected Jun 2026

- Coursework: AI, Data Engineering, Big Data (Hadoop, HDFS, Spark), Cloud Systems, Health Informatics.
- Capstone: Predictive Analytics for Cardiovascular Risk Detection using IoT and ML.

Professional Experience

Laboratoire National Mohammed VI d'Analyses Casablanca, Morocco
Software Development Intern Jun 2025 – Aug 2025

- Designed a logistics platform optimizing delivery routes and real-time tracking for 50+ vehicles .
- Automated planning workflows, improving resource utilization by 30%.
- Developed modular dashboards and an interactive public catalog for dynamic updates.

Centre Dentaire Mohammed VI Casablanca, Morocco
Software Intern Aug 2024

- Built a patient management system integrating appointment scheduling and analytics.
- Reduced administrative workload by 25% through automated data entry.
- Created dashboards to monitor patient flow and service performance for 200 daily patients.

Self-Employed – AI & Automation Projects Casablanca, Morocco
AI Developer / Automation Engineer Jan 2025 – Oct 2025

- Developed multilingual healthcare chatbots (French–Arabic) improving patient engagement for 50+ clients.
- Implemented automated CRM pipelines with n8n and Zapier to streamline business processes.
- Built predictive models and integrated automation workflows using cloud APIs.

Selected Projects

Cardiovascular Disease Prediction (IoT + ML) Jan – Jul 2025

- Engineered ML pipelines combining IoT sensor data from 200 patient devices for cardiac risk assessment.
- Trained models with TensorFlow and scikit-learn achieving 91% accuracy, reducing false positives by 15%.
- Built real-time dashboards visualizing patient health trends and predictive outputs (1,000+ data points/day).

AI-Assisted Communication App for Autistic Children Jan – May 2025

- Designed NLP-based assistive communication app used by 50 children in pilot testing.
- Applied transformer models to interpret speech and detect emotional tone, improving response accuracy by 20%.
- Enhanced accessibility through user-centered design and adaptive learning, increasing engagement time by 30%.

Technical Skills

Programming & Development: Python, JavaScript, Node.js, React, Express, PostgreSQL, MongoDB, REST APIs, Docker

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Deep Learning (CNN, RNN, Transformers), NLP, Predictive Modeling

Big Data & Cloud: Hadoop, HDFS, Apache Spark, Kafka, ETL Pipelines, AWS, GCP, Data Warehousing, Stream Processing

Automation & IoT: Workflow Automation (n8n, Zapier), IoT Integration, Real-Time Analytics, Chatbots (Dialogflow, LangChain)

Web & DevOps: Docker, Kubernetes, FastAPI, Node.js, React, REST APIs

Practices: Git, CI/CD, Agile, Scrum, System Design, MLOps Fundamentals

Languages: French (native), Arabic (native), English (professional)