

MOUNCEF IKHOUBI

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EXPERIENCE

University Hospital Center

July 2024 – August 2024

Machine Learning Intern, Oujda, Morocco

- Developed a solution for monitoring psychiatric patients' activity in a medical environment by analyzing Wi-Fi signals. This innovative approach ensures patient privacy by replacing camera systems with Wi-Fi-based tracking. The model achieved 95% accuracy.

Innovx

July 2025 – September 2025

DevOps Intern, Casablanca, Morocco

- Migrated a .NET application to FastAPI. Complete endpoint validation via Postman, ensuring functional integrity.
- Automated CI/CD with Azure DevOps. Containerization via Docker.

PROJECTS

Smart Energy Management Platform

🔗 <https://github.com/mouncefik/EcosyncAi>

Hackathon — 3rd Place

Full-stack application predicting hourly energy consumption via Machine Learning models. Load optimization through genetic algorithms. Interactive dashboard (Plotly Dash), JWT authentication, secure REST API.

Technologies: Python, Flask, PostgreSQL, Docker, Plotly, Jinja, LLM

TaskCraft AI — Voice Assistant

🔗 <https://github.com/elhalili/taskcraft-ai>

Hackathon

Desktop voice assistant built with PyQt enabling system tasks (open apps, send emails, generate code) via voice command. Offline STT using Whisper.cpp, quantized LLM (Llama 3) for interpretation, autonomous agents for execution. Fine-tuned on 500 custom commands.

Technologies: Python, PyQt, Whisper.cpp, Ollama, LangChain Agents, PyAutoGUI

AI Resume Analyzer

🔗 <https://github.com/mouncefik/Analyse-your-resume-With-AI>

Hackathon

Streamlit web tool automatically analyzing PDF resumes via NLP (spaCy, PyPDF2) and RAG (LLM). Structured extraction of skills, experiences, education. Job recommendation engine based on semantic matching and MySQL history.

Technologies: Python, Streamlit, spaCy, LangChain, FAISS, MySQL, Matplotlib

EDUCATION

National School of Electricity and Mechanics

2023–2026

Engineering Degree — Software Engineering and Digitalization, Casablanca

Preparatory Classes for Engineering Schools

2021–2023

Mathematics & Physics, Oujda

SKILLS

Back-End:	Python (Flask, FastAPI, Django), Java, Javascript
Databases:	PostgreSQL, MySQL, Oracle, Neo4j
DevOps & Cloud:	Docker, Kubernetes (basics), GitHub Actions, Azure DevOps, AWS (EC2, S3)
ML/AI:	Scikit-learn, TensorFlow, PyTorch, LangChain, LLM fine-tuning, RAG
Systems:	Windows, Linux (Ubuntu, Bash scripting), WSL
Languages:	Arabic (native), French (fluent written/spoken), English (technical fluency)

CERTIFICATIONS

AWS Cloud Quest: Cloud Practitioner | NVIDIA: Getting Started with Deep Learning

VOLUNTEERING

- **Vice Team Leader**

Enactus ENSEM, Casablanca

Leading social entrepreneurship initiatives and community development projects; managing cross-functional teams to deliver impactful solutions for local communities.

- **Certified Trainer**

Enactus Morocco - Training of Trainers Program

Specialized certification obtained to train the Enactus ENSEM team in project management, leadership, and social entrepreneurship methodologies.

2024