

AI DEVELOPER

HAMZA LAFSIOUI

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Portfolio

EDUCATION

AI Developer – YouCode (UM6P), Safi — **2025 - Present**

Bachelor's Degree in Physics, Electronics Track - Ibn Zohr University FSA — **2019 - 2023**

High School Diploma, Physical Sciences - Lycée Sidi Moussa Lhamri — **2018 - 2019**

TECHNICAL SKILLS

- **Languages & Data:** Python, SQL, Pandas, NumPy, Jupyter, Matplotlib, Seaborn, OpenCV, ETL, Airflow, REST API, PostgreSQL, MySQL
- **Machine Learning:** Scikit-learn, Classification, Regression, Clustering (K-Means, DBSCAN), KNN, SVM, Random Forest, Gradient Boosting, XGBoost, LightGBM, CatBoost, MLflow
- **Deep Learning & NLP:** PyTorch, TensorFlow/Keras, CNN, Hugging Face, Transformers, Embeddings, Sentence Transformers, Fine-tuning
- **LLM, RAG & Agents (in training):** Prompt Engineering, Ollama, OpenAI API, Azure OpenAI, RAG, LangChain, LlamaIndex, LangGraph, MCP, Vector databases, Guardrails
- **AI Backend & MLOps:** FastAPI, Pydantic, Streamlit, Gradio, Docker, Kubernetes, GitHub Actions, CI/CD, DVC, JWT, Langfuse, Pytest
- **Tools & Methodologies:** Git, GitHub, VS Code, Google Colab, Kaggle, Agile/Kanban

PROFESSIONAL EXPERIENCE

Full-Stack & AI Developer Intern — **2 months**

- Developed a mobile recruitment application with React Native
- Integrated artificial intelligence features for the automatic analysis and detection of recruitment-related information.

AI ACADEMIC PROJECTS

NeuroVision | **Python, TensorFlow, InceptionV3, YOLOv8, FastAPI, Streamlit, MLflow, Airflow, Docker**

- AI-assisted brain tumor diagnosis platform: from an MRI scan, it identifies the tumor type (Glioma, Meningioma, Pituitary or none, 96.35% accuracy) and locates the lesion on the image.
- Web interface for radiologists, automatic daily quality checks, launched with a single command (Docker).

DiaSense | **Scikit-learn, MLflow, Airflow, FastAPI, Streamlit, Docker**

- Diabetes risk prediction platform: patients are grouped into risk profiles (K-Means), then the best model (KNN, SVM, Logistic Regression or Random Forest, chosen on F1-score) classifies new patients.
- Automatic weekly retraining, best model tracked and promoted to production with MLflow, FastAPI API and Streamlit web interface for doctors (Docker Compose).

DeliveryETA | **Python, Pandas, Scikit-learn, Streamlit, Docker**

- Predicts a food order's delivery time in minutes from distance, weather, traffic and the courier.
- Best of 4 models: Random Forest (MAE 3.18 min, R^2 0.82), usable by anyone through Streamlit (Docker).

LANGUAGES

Arabic: native | French: intermediate | English: intermediate

INTERESTS

Reading | Technology watch | Sport