



Hassan KERROUMI

AI Engineer

CONTACT

- +212 704 17 28 00
- hassan.kerroumi.da@gmail.com
- Fez
- hassan-kerroumi.github.io
- GitHub
- linkedin

SKILLS

- Python, C/C++, Java
- TensorFlow, OpenCV
- Machine Learning
- Deep Learning
- Computer Vision
- Reinforcement Learning
- NLP, Knowledge Graph
- Data Analysis
- Transformers, RAG
- LLM Post training
- Web/ development
- MongoDB database
- N8N, API integration

CERTIFICATES

- SQL - MySQL
- ML Certifications
- Deep Learning Certifications
- NLP Certifications
- GANs Certifications
- Math/Statistics Certifications

LANGUAGES

- Arabic**
Native/Fluent
- English**
Upper Intermediate
- French**
Intermediate
- Spanish**
Basics

INTERESTS

- History, Programming, Sport

Profile

I am an Artificial Intelligence engineer, graduated from the School of Engineering Digital and Artificial Intelligence (EIDIA), Euromed University of Fez. I build AI systems across computer vision, NLP/LLMs, and deep learning for scientific data, and I am eager to contribute to innovative, real-world AI projects.

WORK EXPERIENCE

Climate Downscaling Research Intern

UM6P — International Water Research Institute (IWRI) Feb - Jul 2026 (6 months)

- Built an end-to-end deep-learning pipeline downscaling coarse GCM (LMDZ, 35–250 km) outputs to 0.1° precipitation and temperature over Morocco
- Trained a U-Net model (ERA5 predictors, MSWEP target) with a custom Bernoulli–Gamma rainfall loss
- Applied bias correction (Scaled Distribution Mapping) and ran inference on SSP245/SSP585 climate scenarios

Summer Internship

Euromed Research Center

July - September

- Created mobile application to assist nursing students with diagnostic learning
- Research paper: Cluster validity metrics under different normalization

ACADEMIC PROJECTS

ML Mobile Robot

- Data collection, preprocessing, model training and comparison

Project: Garbage Classification with AI

- Developed an AI-powered garbage classification system
- Implemented CNN models achieving 92% accuracy in waste categorization
- Collaborated with team by testing other algorithms like Random Forest SVM

OCR Arabic using CNN-BiLSTM and Attention Mechanism

- Developed deep learning model for Arabic text recognition
- Implemented attention mechanism to improve character recognition accuracy
- Technologies: Tensorflow, CNN, BiLSTM, Attention networks

Voice to Voice Translator System

- Created real-time speech translation system with speech recognition and synthesis
- Integrated multiple language
- Language detection using GMM
- Technologies: Speech APIs for STT, text translation and TTS

TF-IDF and Support Vector Machine for News Classification

- Implemented NLP-based news categorization system with 98% accuracy
- Technologies: Scikit-learn, NLTK, SVM, TF-IDF vectorization

Image Filtering App

- Built image processing application with various filter effects
- Technologies: Python, OpenCV, Image processing

EDUCATION

UNIVERSITY EUROMED OF FEZ

2021 - 2026

Artificial Intelligence Engineer

- Final year artificial intelligence

HIGH SCHOOL

2020 - 2021

International Baccalaureate

- Specialization in Physical Science