

Khelifi Alae

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in Khelifi Alae ⚡ github.com/AlaeKhelifi ⚡ [Portfolio](#)

Profile

Master's student in Artificial Intelligence. Experienced in deep reinforcement learning, computer vision, and real-time data pipelines. Passionate about applying AI to solve real-world problems through hands-on projects and collaborative development.

Degrees

Bachelor's Degree Information Systems and Industrial Logistics

UMBB
2022-2025

- focused on information systems, database management, programming, and industrial process automation, with practical experience in project-based learning and system design.

Master 1 in Artificial intelligence - Present

UMBB
2025-2026

- Relevant coursework: *Advanced algorithms, Machine learning, Advanced Database systems, Computer Vision, Cloud computing.*

Education

Master in Artificial intelligence (M1) -Present

UMBB
2025-2026

-CS Departement-

- Advanced Algorithms, Machine Learning, Computer Vision, Deep Learning, Cloud Computing, Advanced Database Systems.

3rd Year Bachelor's Degree

UMBB

-CS Departement-

2022–2025

- Program focused on information systems and industrial logistics, involving programming, database design, web development, and data analysis, with a final project on ai model (Final project graded 17/20).

High School Diploma - Mathematics Option

Zemmouri

El-djadida High School

2022

- Average obtained: 14.83.

Projects

Reinforcement Learning for Autonomous Lunar Landing

February 2025

GitHub | Demo | Grade: 17/20

- Benchmarked Q-Learning, DQN, and PPO algorithms; PPO achieved **91% success rate with 43% faster training** than DQN, demonstrating superior sample efficiency and stable policy updates
- Implemented CNN-based DQN with experience replay and Actor-Critic PPO architecture for visual state space (84×84 frames) – *Python, PyTorch, OpenAI Gym, OpenCV*

Real-Time E-Commerce Analytics Pipeline

November 2025

GitHub

- Architected event-driven pipeline with Apache Kafka processing **10,000+ orders/hour**, reducing latency from 24hr batch to <5 sec **real-time** through stream processing and aggregation

- Containerized with Docker Compose (Kafka, Zookeeper, PostgreSQL, Streamlit) – *Python, Pandas, Docker*

Breast Cancer Classification with Machine Learning

October 2025

GitHub

- Developed KNN model achieving **96.5% accuracy** for tumor diagnosis; applied PCA reducing features 30→10 while maintaining 95%+ accuracy and **3x faster inference**

- **Technologies:** Python, scikit-learn, Pandas, NumPy, Matplotlib, PCA

Automated Exam Scheduling System

December 2025

GitHub | Live

- Built constraint-based scheduler for **2,000+ students** using genetic algorithm, reducing planning time from **2 weeks to 15 min** – deployed on Railway, piloted by CS department Spring 2025

- **Technologies:** Python, Streamlit, MySQL, Genetic Algorithms, Railway

Skills

Soft skills: Communication, Problem Solving, Teamwork, Adaptability.

Proficient: Python, PyTorch, Machine Learning, Reinforcement Learning, Git/GitHub, SQL

Experienced: TensorFlow, OpenCV, Docker, Apache Kafka, Streamlit, MySQL, C/C++

Familiar: JavaScript, Node.js, Flask, MongoDB, R, Java

Languages

- **French:** Fluent
 - **English:** Fluent
 - **Arabic:** Native language
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Objective

Master's student in Artificial Intelligence seeking internship in Machine Learning, Data Engineering, Software Development. Hands-on experience with deep reinforcement learning , distributed data pipelines , and full stack development. Adaptable and eager to contribute across technical domains.