



PROFILE

Master student in Artificial Intelligence looking to apply my theoretical knowledge through an internship (PFE).
Motivated, dynamic, inquisitive, cooperative, eager to improve and open-minded, I aim to apply and develop my skills in professional environment.

Skills

Programming languages :

- Python, c++.

Data science libraries:

- NumPy, Pandas, Scikit-learn, PyTorch.

ML and DL techniques and algorithms:

- Transformer, Autoencoder (VAE), RNN, CNNs, SVM, Decision Trees, Classification Random Forest, and Regression algorithms. NLP (Text Classification, Object detection, Computer Vision (Object Detection)).

Databases:

- SQL Server, Oracle.

Frameworks Web:

- Django.

Other tools:

- Git, GitHub, PaddleOCR, TesseractOCR, YOLOv7.

Cross-disciplinary skills:

- Self-training, Critical thinking, Teamwork, Communication.

LANGUAGES

Arabic: Native speaker

French: Fluent.

English: Intermediate



ZINEB LAHRAOUI

Master in artificial intelligence

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Kenitra

EDUCATION

• 2023-2025 FACULTY OF SCIENCES IBN TOFAIL KENITRA

Master Degree in artificial intelligence.

• 2022-2023 FACULTY OF SCIENCES IBN TOFAIL KENITRA

Bachelor degree in physical science.

• 2020-2021 FACULTY OF SCIENCE IBN TOFAIL KENITRA

Diploma of general university studies (DEUG) in physical science.

• 2018-2020 BTS IBN SINA, KENITRA

Higher Technician certificate in industrial product design.

• 2017-2018 IBN SINA TECHNICAL HIGH SCHOOL, KENITRA

Baccalaureate option in physical sciences.

PROFESSIONAL EXPERIENCE

• 2024 HACKATHON COMPETITION IN UM6P

Participate in workshops and assist with presentations on applied CUDA programming during the HPC AI Hackathon. Furthermore, compare GPU and CPU performance in matrix multiplication by generating a performance comparison graph.

• 2023-2024 INSTRUCTOR AT LMS ACADEMY (EDUCATION CENTRE)

Supervision of students:

- Teach the basics of robotics to primary and college students, both theoretically and practically.
- Supervise the creation of mini robotics projects by students.

PROJECTS

• IMAGE SEGMENTATION BASED ON TRANSFORMER VIT- SECOND YEAR MASTER:

Annotate the data, write the state of the art section for the project, build the model, optimize the code, and use the segmenter to classify images. The project focuses on image segmentation using Vision Transformers (ViT).

• HANDWRITING RECOGNITION FOR TIFINAGH CHARACTERS- SECOND YEAR MASTER:

Integrate PaddleOCR and TesseractOCR with a CNN-Transformer hybrid model for Tifinagh script handwriting recognition.

• AUTONOMOUS ROBOTIC ARM - FIRST YEAR MASTER:

Develop an autonomous robotic arm capable of object recognition and motion simulation using Python, ROS2, Rviz and Gazebo. Integrate camera systems for object recognition into ROS2.

• DATA ANALYSIS PROJECT - FIRST YEAR MASTER:

Use the Fuzzy K-Means algorithm to segment customers based on their commitment and loyalty.