



Ismail El Jamiy

PhD student in Artificial Intelligence

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📍 Toulouse, France

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EDUCATION

University of Toulouse (IRIT, IMT, CLLE)

Toulouse - France

PhD in Artificial Intelligence

Nov. 2025 – Nov. 2028

Topic: Handwritten Text Recognition of medieval Arabic scientific manuscripts and development of dedicated LLM.

École Nationale Supérieure d'Arts et Métiers

Casablanca – MAR

State Engineer's Degree

Sep. 2022 – Sep. 2025

Field: Artificial Intelligence and Computer Science Engineering (Selective access based on average)

Honors: Highest Distinction

Euclid High School

Mohammedia – MAR

Baccalaureate in Mathematical Sciences with French option

Sep. 2019 – Jul. 2020

Honors: Highest Distinction

EXPERIENCE

Research Intern in AI and Medical Imaging

March 2025 - Sep. 2025

Institut de Recherche en Informatique de Toulouse (IRIT)

Toulouse - FRA

Objective : Medical image segmentation using few-shot learning techniques.

- Conducting state-of-the-art review of segmentation algorithms with limited data and few-shot learning techniques.
- Processing various types of medical images (MRI, CT, etc.) and understanding their specificity and formats.
- Developing a segmentation model based on U-net architecture with few-shot learning configuration.

Volunteer Computer Vision Developer

Aug. 2024 - Dec. 2024

Youth For Challenge Association

Casablanca - MAR

Objective : Development of an intelligent platform to facilitate communication for deaf and mute people, through real-time translation of sign language into text.

- Conducting state-of-the-art review of hand detection and segmentation methods.
- Developing an algorithm based on convolutional neural networks (CNN) for hand gesture recognition.
- Creating an interface and deploying developed algorithms using Flask and OpenCV.

Computer Vision Intern

Apr. 2024 - Jun. 2024

SYGMA.AI (InsurTech Company)

Casablanca - MAR

Objective : Design of an intelligent solution for segmentation of damaged areas on vehicles involved in accidents, with the aim of automatically assessing insurance coverage.

- Collection and processing of car images using Python, Selenium, Scrapy.
- Implementation of a neural network (CNN) for classification of damaged vehicles, using PyTorch.
- Development of a license plate verification algorithm combining CNNs and optical character recognition (OCR) techniques.

AI and Image Processing Intern

Jul. 2023 - Jul. 2023

Lesieur Cristal

Casablanca - MAR

Objective : Detection of personal protective equipment (PPE) from videos to minimize operational risks and enhance employee safety in industrial environments.

- Development of a structured dataset containing various classes of personal protective equipment (PPE) from diverse sources.
- Design of a PPE detection and recognition algorithm based on convolutional neural networks (CNN).

ACADEMIC PROJECTS

Footvision (Football Match Analyzer)

Apr. 2024 - Jun. 2024

 [Project Link](#)

Related courses: Artificial Intelligence

Objective : Develop an automatic football match analysis system from videos, identifying player movements and generating tactical maps for studying positioning and game strategies.

- Implementation of detection algorithms based on CNNs to detect players and the ball in video sequences.
- Generation of tactical maps using Pandas, Matplotlib, and Seaborn.

Marathon Photo Finder

Mar. 2024 - May 2024

 [Project Link](#)

Related courses: Machine Learning.

Objective : Enhance runners' experience by offering a quick and efficient solution to find their race photos, using image recognition technology and other machine learning techniques.

- Implementation of a CNN-based person detection architecture.
- Development of an optical character recognition (OCR) system for extracting player numbers for re-identification.

EXTRACURRICULAR ACTIVITIES

MiaThon (Hackathon)

June 2024

Top 10 among 62 Teams

- Participation in a two-day national competition.
- Development of a travel planning chatbot, leveraging LLMs with fine-tuning and RAG for customized historical information.

Google Developers Group On Campus

Sep. 2024 - Mar. 2025

Cloud & DevOps Training Supervisor

- Organization of 2 workshops to train 25 students in Cloud and Containerization technologies.
- Organization of a conference on "Infrastructure as Code (IaC)" with the participation of a data engineering expert.

TECHNICAL SKILLS

- **Data Science:** Python (Pandas, Numpy, Matplotlib, Seaborn, Plotly, Selenium, Scrapy).
- **AI Tools:** Scikit-learn, Keras, TensorFlow, PyTorch, MONAI, Nibabel, SimpleITK, OpenCV, HF Transformers, Spacy, NLTK, jwifer, pyarabic.
- **Deep Learning Architectures:** CNN, U-Net, RNN, LSTM, Transformers, ViT, VLM.

CERTIFICATES

Data Scientist Associate(90h), DataCamp, [Link](#)

Nov. 2024

Advanced Learning Algorithms(34h), DeepLearning.AI, [Link](#)

Apr. 2023

Supervised Machine Learning: Regression and Classification(33h), DeepLearning.AI, [Link](#)

Mar. 2023

Machine Learning for Time Series Data in Python(4h), DataCamp, [Link](#)

Nov. 2024

LANGUAGES

- **French:** Bilingual
[TCF Certificate level C1 \(Score: 543\)](#)
- **English:** Advanced
- **Arabic:** Native Language

HOBBIES

- Photography
- Team Sports
- Traveling