Manal Essalmouni | AI Engineer & Data Scientist

Kenitra, Morocco

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Portfolio: manalessalmouni.github.io/essalmounimanal

Education

Center of Excellence in Automotive & Aeronautics, Faculty of Sciences   Kenitra, Morocco
Master of Excellence in Artificial Intelligence & IoT (AI Track)   *2024–2026*
In progress

Center of Excellence in Automotive & Aeronautics, Faculty of Sciences   Kenitra, Morocco
Bachelor of Excellence in Artificial Intelligence & Data Engineering   *2023–2024*

Higher School of Technology (EST)   Meknes, Morocco
University Diploma of Technology (DUT) in AI & Emerging Technologies   *2021–2023*

Ibn Zoher High School   Ouezzane, Morocco
Baccalaureate in Physical Sciences   *2020–2021*
Honors: Very Good

Professional Experience

EMS Maroc   Kenitra, Morocco
Machine Learning & Computer Vision Intern   *Jul–Sep 2025*
○ Built and prepared the dataset (collection, cleaning, annotation), then applied preprocessing and image augmentation for a complete Computer Vision pipeline.
○ Implemented a YOLO + OCR pipeline for real-time detection and automatic extraction of Moroccan license plates and phone numbers.
○ Developed a web inference demo (live stream / upload) with clear result visualization.

Omniconsulting   Remote
Artificial Intelligence Intern   *Jul–Aug 2025*
○ Developed an AI-powered web app to automatically compare multiple CVs against a PFE internship description.
○ Implemented relevance scoring and candidate ranking to support HR pre-screening.

Faculty of Sciences, Kenitra   Kenitra, Morocco
AI Research Intern   *Jul & Sep 2024*
○ Prepared and structured medical datasets; cleaned and preprocessed MRI images for AI model training.
○ Developed *SymptoBot*, an AI-based diagnostic support system using symptoms and medical imaging.

ONEE   Meknes, Morocco
Final-Year Intern   *Apr–Jul 2023*
○ Built tools for wastewater treatment system sizing.
○ Trained predictive models to assess water potability using physico-chemical data.

Agro Juice Processing (Valencia)   Meknes, Morocco
Introductory Intern   *Jul 2022*
○ Developed a stock management web app to track inventory and product movements.

Technical Skills

AI & Data: Machine Learning, Deep Learning, Computer Vision, Data Analysis, Data Visualization, Image Processing

Programming: Python, Java, C, C++, SQL/MySQL

Web: Flask, PHP, JavaScript, HTML5, CSS3

Tools: TensorFlow, Keras, scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Git, Linux

Languages: Arabic (Native), English (Fluent), French (Intermediate)

Certifications

AI Engineer for Data Scientists Associate — DataCamp   View certificate
Python Data Associate — DataCamp   View certificate
Data Scientist Associate — DataCamp   View certificate