

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 <i>Master of Excellence in Artificial Intelligence & IoT (AI Track)</i>	Kenitra, Morocco
In progress	2024–2026
Center of Excellence in Automotive & Aeronautics, Faculty of Sciences <i>Bachelor of Excellence in Artificial Intelligence & Data Engineering</i>	Kenitra, Morocco
Higher School of Technology (EST) <i>University Diploma of Technology (DUT) in AI & Emerging Technologies</i>	Meknes, Morocco
Ibn Zohr High School <i>Baccalaureate in Physical Sciences</i>	Ouezzane, Morocco
Honors: Very Good	2020–2021

Professional Experience

EMS Maroc <i>Machine Learning & Computer Vision Intern</i>	Kenitra, Morocco 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 <i>Artificial Intelligence Intern</i>	Remote 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 <i>AI Research Intern</i>	Kenitra, Morocco Jul & Sep 2024
○ Prepared and structured medical datasets; cleaned and preprocessed MRI images for AI model training.	
○ Developed <i>SympoBot</i> , an AI-based diagnostic support system using symptoms and medical imaging.	
ONEE <i>Final-Year Intern</i>	Meknes, Morocco 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) <i>Introductory Intern</i>	Meknes, Morocco 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

Data Scientist Associate — DataCamp
datacamp.com/certificate/DSA0016943389264