Manal Essalmouni | AI Engineer & Data Scientist

Kenitra, Morocco

☎ +212 6 15 87 74 24 • ✉ essalmounimanal@gmail.com • in manal-essalmouni

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

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