MAIMOUNI YOUSSEF

Junior Data Scientist | AI, NLP, Computer Vision

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📍 Casablanca, Morocco

Master's student in Data Science, specializing in Artificial Intelligence and Big Data. Strong expertise in Machine Learning, NLP, Computer Vision, and Cloud deployment (Azure, AWS). Passionate about innovation, I am seeking a final-year internship starting February 2026 to design and deploy intelligent, high-impact solutions.

EDUCATION

Master's Degree in Computer Science and Mathematics for Data Science
- ENSA Khouribga – Sultan Moulay Slimane University | 2024 – 2026

Bachelor's Degree in Mathematical and Computer Sciences – Database Option
- University Hassan II – Faculty of Sciences Aïn Chock, Casablanca | 2021 – 2024

PROFESSIONAL EXPERIENCE

Data Science Intern – SCInc, Casablanca (Hybrid) | Juin – Sept 2025
- Designed a computer vision pipeline for retail shelf analysis.
- Detection (YOLOv8), segmentation (Mask R-CNN), classification (ResNet-50), validation (ORB + BFMatcher).
- Cloud deployment and Agile teamwork on large-scale datasets.

Web Developer Intern – Webagency Maroc, Casablanca | Juin – Août 2024
- Developed full-stack applications using Laravel, React.js, and Tailwind CSS.
- Documented REST APIs with Swagger.
- Optimized performance through Agile methodology.

SKILLS

- **Artificial Intelligence & Machine Learning:** Supervised / Unsupervised Learning, CNN, LSTM, Transformers
- **Natural Language Processing & LLMs:** TF-IDF, BERT, mT5, Text Mining, RAG (Retrieval-Augmented Generation)
- **Computer Vision:** YOLOv8, Mask R-CNN, ResNet-50, OpenCV
- **Big Data & Data Engineering:** Data Collection, Cleaning, Clustering (K-Means), PCA, t-SNE, Power BI, SSIS
- **Deployment & Cloud:** Flask, FastAPI, Laravel, ReactJS, Docker, Azure, AWS
- **Databases:** SQL (MySQL, Oracle), NoSQL (MongoDB), PL/SQL
- **Languages & Tools:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), Java, JavaScript, Bash, Git
- **Soft Skills:** Leadership, Teamwork, Problem Solving, Communication
- **Languages:**
  - **Arabic:** Native
  - **French:** Professional (B2 – Rosetta Stone)
  - **English:** Professional (B2 – Rosetta Stone)

PROJECTS

Enhancing Cloud Cybersecurity with AI (Final Year Project – ENSA Khouribga)
- Implemented and compared multiple models: CNN-LSTM, Random Forest, MLP, XGBoost.
- Used benchmark datasets (NSL-KDD, UNSW-NB15, CICIDS2017).
- Deployment and testing on Azure & AWS.
- Provided a comparative analysis and intelligent architecture recommendations.

Arabic News Clustering (NLP Project)
- Processed 52,000+ Arabic articles from 4 media sources.
- Hybrid vectorization (TF-IDF + BERT) and dynamic clustering (K-Means → 609 clusters).
- Similarity analysis (TF-IDF, BERT, Levenshtein) and visualization (PCA, t-SNE).
- Automatic text summarization (mT5) and image generation (Stable Diffusion).

AWARDS & DISTINCTIONS

- 🥇 1st Place – DevJam Hackathon (ENSIAS IT Club, 2025) : Smart Water Leak Detection System (IoT + AI, single-sensor ML solution)
- 🥈 2nd Place – Problem Solving Competition (Open Source Days 14.0, ENSA Khouribga, 2024)
- 🥉 3rd Place – Hackathon (Open Source Days 14.0, ENSA Khouribga, 2024)