

Marzoug Nabil

Data Science and Artificial Intelligence
Engineer

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GitHub LinkedIn



Objective

Graduate in Data Science and Artificial Intelligence Engineering, with experience in Python, R, and the development of machine learning and deep learning models. Experienced in data analysis, including exploration, visualization, and interpretation. Interested in research in Artificial Intelligence and Quantum Computing.

Education

- 2025–Present **Master's with Thesis in Computer Science - Specialization in Artificial Intelligence**, *Université de Moncton*, Moncton, Canada.
- 2021–2024 **Engineering Degree in Data Science and Artificial Intelligence**, *National School of Applied Sciences*, Safi, Morocco.
Relevant courses: Data Science, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, and Big Data.
- 2019–2021 **CPGE - Preparatory Classes for Engineering Schools**, Morocco.
Preparatory training in mathematics, physics, and engineering sciences to enter engineering schools.

Professional Experience

- 2025–2027 **Research Assistant in Artificial Intelligence and Robotics**, *Prime Lab, Université de Moncton*, Canada (On-site).
Participation in client projects in the field of Artificial Intelligence and robotics. Contribution to the design, development, and optimization of AI-based solutions for industrial and research applications.
- 2023–2024 **Quantum Machine Learning Intern**, *Prime Lab, Université de Moncton*, Canada (On-site).
Development and implementation of Quantum Machine Learning models for medical image classification. Benchmarking between quantum and classical models. Co-authoring research articles.
- 2022–2023 **AI Research Assistant**, *Université de Moncton*, Canada (Remote).
Analysis of the CICDarknet-2020 dataset and development of machine learning models for network traffic classification.
- 2022–2023 **Data Science and Machine Learning Intern**, *3D Smart Factory*, Morocco.
Implementation of a credit card fraud detection system using Python and advanced classification algorithms.

Publications

- 2025 **Quantum-Enhanced Dual-Backbone Architecture for Accurate Gastrointestinal Disease Detection Using Endoscopic Imaging**. *BioMedInformatics*, September 2025.
- 2024 **Optimizing Spare Parts Inventory Management Using Genetic Algorithm**. *Proceedings of the 10th International Conference on Optimization and Applications (ICOA)*, October 2024.
- 2024 **LIDarknet: Experimenting the Power of Ensemble Learning in the Classification of Network Traffic**. *8th IEEE Cyber Science and Technology Congress*, 2024.

Blogs

- 2023 Mastering Decision Trees For classification: Unleashing Their Full Potential.
- 2023 Data Science: Web scraping with python.

Skills

- **Programming Languages:** Python, R, SQL, LaTeX.
- **Data Analysis:** Numpy, Pandas, Seaborn, Matplotlib, Plotly, Power BI, Excel.
- **Machine Learning:** Supervised and unsupervised learning, Classification, Clustering.
- **Deep Learning:** CNNs, RNNs, LSTMs, Transfer learning.
- **Computer Vision:** OpenCV, Image processing, Object detection, Classification.
- **Quantum Learning:** PennyLane, Qiskit.
- **Frameworks:** TensorFlow, PyTorch, scikit-learn.
- **Databases:** SQL, MySQL.
- **Soft Skills:** Teamwork, Communication, Leadership, Adaptability.

Certificates

- Exploratory Data Analysis for Machine Learning, IBM
- Foundations: Data, Data, Everywhere, Google
- intro-to-machine-learning, Kaggle
- Computer Vision, Kaggle
- The Elements of Data Science, Machine Learning Online Course, AWS Training & Certification
- Machine Learning for Leaders | Machine Learning Online Course | AWS Training & Certification
- Time Series Analysis in R, Great Learning
- Statistics for Data Science, Great Learning