

MARZOUG NABIL

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OBJECTIVE

Graduate in Data Science and AI Engineering with a strong foundation in Python and R, and expertise in developing customer-facing interfaces. Eager to leverage my skills in executing proof-of-concept projects and supporting business development activities. Passionate about AI research, I am seeking opportunities to contribute to cutting-edge research initiatives while gaining hands-on experience in implementing innovative solutions.

EDUCATION

Engineering Degree in Data Science and Artificial Intelligence, National school of Applied Sciences, Safi 2021-2024

Relevant Coursework: Data Science , Data analysis, Big Data,Business Intelligence, Machine Learning, Deep Learning, Computer Vision and Natural language processing.

SKILLS

Programming Languages	Python, R
Web Scraping	Beautiful Soup, Scrapy
Data Analysis	Numpy, Pandas, Seaborn, Matplotlib, Plotly, Power Bi, Excel
Statistics	Probability, Regression, Hypothesis Testing, Linear Algebra
Machine Learning	Supervised Learning, Unsupervised Learning, Classification, Regression, Clustering.
Deep Learning	Neural Networks, Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Long Short-Term Memory (LSTM)
Computer Vision	OpenCV, Image Processing, Object Detection, Image Classification, Facial Recognition
NLP	NLTK, spaCy, Transformers (e.g., BERT, GPT)
QML	PennyLane, Qiskit
Frameworks	TensorFlow, PyTorch, scikit-learn.
Big Data	Apache Hadoop, Apache Spark
Cloud Platforms	Microsoft Azure, AWS
Database Management	SQL, MySQL, PostgreSQL, Database Design, Query Optimization
Version Control	Git, GitHub
Operating System	Linux
Language Model Systems	BERT, GPT (Generative Pre-trained Transformer)
Soft Skills	Communication, Team Work, Professional Writing, Leadership, Critical Thinking, Adaptability, Time Management

EXPERIENCE

Assintant in AI Research 2022- 2023

Moncton University-Canada (Remote)

- Led the analysis of the Cidarknet-2020 dataset, resulting in a Research paper that describes the use of machine learning in cyber security in identifying and mitigating potential security threats.
- Developed and implemented a comprehensive approach for identifying anomalous behavior and malicious activities in network traffic using Machine learning (Ensemble Methods, Machine Learning Algorithms) and Deep learning techniques (CNN, transfer learning, Gans).
- The [paper](#) has been submitted and accepted in the 8th IEEE Cyber Science and Technology Congress (Cyber-SciTech 2023).

Data Science and Machine Learning Intern
3d Smart Factory-Morocco

2022- 2023

- Implemented a machine learning-based credit card fraud detection system using Python. Leveraged advanced classification algorithms and data preprocessing techniques to identify fraudulent transactions.

Quantum Machine learning Intern
Moncton University-Canada (On-site)

2023- 2024

- Developed and implemented Quantum Machine Learning models for the classification of medical images, leveraging advanced quantum algorithms to enhance predictive accuracy.
- Conducted comprehensive benchmarking between Quantum Machine Learning models and classical models to evaluate performance, scalability, and efficiency across medical image datasets.
- Authored and co-authored research papers detailing the development, implementation, and benchmarking of Quantum Machine Learning models.

BLOGS AND SCIENTIFIC WRITING

- [Research Paper: LIDarknet-Experimenting the Power of Ensemble Learning in the Classification of Network traffic](#)
- [Mastering Decision Trees For classification: Unleashing Their Full Potential](#)
- [Data Science: Web scraping with python](#)

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](#)