Assem Maher Salama

salama.assem@gmail.com | 01060558551 | portfolio

EDUCATION	
 Queen's University Master of Science – MS, Data Science and Artificial Intelligence Grade: 4.1/4.3 Thesis: Analyzing the Impact of Prompts on LLM-Driven Code Translation Using Causal Relevant Courses: Machine Learning, Deep Learning, Reinforcement Learning, Big Data Data Mining, Data Analytics 	
 Canadian International College-CIC Cape Breton University Bachelor of Electronics and Communications Engineering Grade: 3.1/4.0 Relevant Coursework: Statistics, Probability, Discrete Mathematics Graduation Project: Implemented a 2x2 MIMO-OFDM system using USRP and LabVIEW 	Cairo-Egypt (Oct 2016 - May 2021)
PROFESSIONAL EXPERIENCE Vodafone Egypt IP Datacom Network Engineer - Resolve access policy issues for remote teams, ensuring seamless server connectivity. - Monitor and troubleshoot network alarms on routers, switches, and firewalls to maintain u - Deploy configuration scripts to enforce access policies and enhance network security.	(September 2023 - present) ptime.
 Transmission Front Office Engineer Provided technical support for TX access and backhaul (BH) operations across 2G/3G/4G Diagnosed and resolved transmission-related incidents, to reduce downtime. Coordinated with cross-functional teams to address global network outages within SLA times. 	
PROJECTS Volatility Forecasting in India - Developed a GARCH time-series model to predict asset volatility; integrated SQLite for developed a GARCH time-series.	ata storage and built a
 A/B Testing for Program Enrollment (WorldQuant University) Executed chi-square testing to evaluate email campaign effectiveness; designed Python ET interactive data app. Customer Segmentation in the US 	TL pipelines and an

- Implemented k-means clustering and PCA for consumer segmentation; deployed an interactive dashboard using Plotly Dash.

Bankruptcy Prediction in Poland

- Engineered random forest and gradient boosting models to forecast bankruptcy; addressed class imbalance via resampling and optimized precision-recall metrics.

Earthquake Damage Assessment in Nepal

- Built logistic regression and decision tree models to predict structural damage, identified and mitigated biases in SQLite datasets.

Air Quality Prediction in Nairobi

 Created ARMA time-series models to forecast particulate matter levels; leveraged MongoDB and PyMongo for data extraction.

Supply Chain Analysis for Faasos

- Conducted SQL-driven analysis of order data to optimize driver pickup times and inventory management.

SKILLS

Programming: Python (scikit-learn, NumPy, pandas, matplotlib), OOP, Design pattern
Big Data: SQL, MongoDB
Machine Learning: Regression, Classification, Clustering, Dimensionality Reduction, Anomaly Detection
Data Science Techniques: A/B Testing, ETL, Data Cleaning, Feature Engineering, Hypothesis Testing, APIs
Time Series Analysis: ARMA, GARCH, Forecasting Models
Software Tools: Linux, Git, Plotly Dash