

Assem Maher Salama

salama.assem@gmail.com | 01060558551 | portfolio

EDUCATION

Queen's University

Master of Science – MS, Data Science and Artificial Intelligence

Ontario-Canada
(Jan 2024 - Dec2024)

- Grade: 4.1/4.3
- Thesis: Analyzing the Impact of Prompts on LLM-Driven Code Translation Using Causal Inference
- Relevant Courses: Machine Learning, Deep Learning, Reinforcement Learning, Big Data & Cloud Computing, Data Mining, Data Analytics

Canadian International College-CIC || Cape Breton University

Bachelor of Electronics and Communications Engineering

Cairo-Egypt
(Oct 2016 - May 2021)

- Grade: 3.1/4.0
- Relevant Coursework: Statistics, Probability, Discrete Mathematics
- Graduation Project: Implemented a 2x2 MIMO-OFDM system using USRP and LabVIEW

PROFESSIONAL EXPERIENCE

Vodafone Egypt

AI and Automation Engineer

(Sept 2025 - present)

- Design, build, and test software using data engineering methods to meet customer needs.
- Collaborate with teams to resolve complex application and system issues Troubleshoot, rectify issues, and provide regular progress updates.
- Integrate diverse data sources for analysis, monitoring, and alerting.
- Create, manage, and optimize complex queries using SPL.
- Design and implement dashboards, visualizations, and reports to provide real-time insights.
- Troubleshoot data ingestion and connectivity issues.

IP Datacom Network Engineer

(Sept 2023 - August 2025)

- Resolved access policy issues for remote teams, ensuring seamless server connectivity.
- Monitored and troubleshoot network alarms on routers, switches, and firewalls to maintain up time.
- Deployed configuration scripts to enforce access policies and enhance network security.

Transmission Front Office Engineer

(March 2023 - August 2023)

- Provided technical support for TX access and backhaul (BH) operations across 2G/3G/4G sites.
- Diagnosed and resolved transmission-related incidents, to reduce downtime.
- Coordinated with cross-functional teams to address global network outages within SLA timelines.

PROJECTS

Volatility Forecasting in India

- Developed a GARCH time-series model to predict asset volatility; integrated SQLite for data storage and built a custom API for predictions.

A/B Testing for Program Enrollment

- Executed chi-square testing to evaluate email campaign effectiveness; designed Python ETL pipelines and an interactive data app.

Customer Segmentation in the US

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

Supply Chain Analysis for Faasos

- Conducted SQL-driven analysis for delivery company 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, Spark, Kafka

Machine Learning: Regression, Classification, Clustering, Dimensionality Reduction, Anomaly Detection

Data Science Techniques: A/B Testing, ETL, Data Cleaning, Feature Engineering, Hypothesis Testing

Time Series Analysis: ARMA, GARCH, Forecasting Models

Software Tools: Linux, Git, Plotly Dash, APIs