

# Marwan Waly

Sr. MLOps @\_VOIS /  
MSc @uottawa

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in marwan-waly 🔄 marwanWaly

## 📄 Certificates

- AWS Certified Machine Learning – Specialty 📄
- AWS Certified Cloud Practitioner 📄

## 📖 Publications

**Benchmarking Meta-Heuristic Optimization**, *Int. J. Advanced Networking and Applications* 📄  
08-2020

## 🧠 Skills

**MLOps** (MLFlow, Terraform, Docker)

**Python** (Flask, Selenium, BeautifulSoup, *xlsxWriter*, *rivescript*, *openCV*)

**AWS** (S3, ec2, lambda function, API gateway, RDS, Glue, SageMaker, QuickSight, Step Function)

**Machine learning** (LLMs, PyTorch, FBprophet, XARIMAS, Sklearn, NLTK, PyTesseract, Pandas, Numpy)

**Data Visualization** (Matplotlib, Plotly, Streamlit, Seaborn)

**Databases** (MySQL, MongoDB, Workbench)

**Version control** (Github, Gitlab)

**Project Management** (SAFE Agile, Jira)

**Other programming languages** (Java, C, C++ also familiar with R)

**Soft Skills** (Presenter, Problem solver and creative thinker, Self-motivated, Fast learner)

## 👛 Professional Experience

**Barq Systems (Dubai Police), NLP Engineer** 📄

01-2024 – present | Dubai, UAE

- Resident AI Engineer at **Dubai Police** innovation center.
- Develop **NLP** solutions for multiple police departments.
- Responsible for creating AI solutions from **POCs** to **production**.
- Working on Arabic text with **LLMs**.

**\_VOIS (Vodafone Intelligent Solutions)** 📄

Sr. MLOps Engineer

09-2023 – 01-2024 | Cairo, Egypt

- Developing **time series forecasting** solutions to solve complex problems and help the clients in their decision making process with **90+% accuracy**.
- Design and deploy **end-to-end automated ML pipeline** from data extraction and modeling to generating reports and dashboards on **AWS**.
- Working side by side with the Data Science team to deliver the needed features and APIs.
- Used tools:  
**Python**(Flask, FB prophet), Cloud (GCP, AWS), Git, Docker, Jira

MLOps Engineer

03-2022 – 09-2023 | Cairo, Egypt

**Epsilon AI, ML instructor** 📄

05-2023 – 10-2023 | Cairo, Egypt

Part time instructor for ML diploma

**Valoro** 📄

Software Engineer - Python

2020 – 2021 | Cairo, Egypt

- Implement serverless functions on **AWS** using **Lambda function**.
- Write web scraping scripts using **beautifulSoup**.
- Build chatbots using **Rivescript**.
- Create Restful API using **Flask API** and run it on **AWS** using **ec2**.
- Involved in **Database** analysis and design.

Intern

2019 | Cairo, Egypt

## Courses

### **MLOps**, *DataCamp*

2023

MLOps concepts, MLFlow, DVC

### **AWS Machine Learning Specialty**,

*Udemy*

2021

### **Business acquisition**, *Dale Carnegie*

2021

### **English**, *Berlitz* [↗](#)

2021

7 levels out of 10 are completed.

### **Problem solving**, *PST*

2018

60 hours training with C++

### **Data Science**, *DataCamp*

2017 – 2018

Python, Data visualization, Pandas, Numpy, and multiple other courses.

## Activities

### **Programming Instructor**

08-2018

I was responsible for introducing programming for children (8-13 years old) using Scratch "MIT website for children"

### **Member at Geeks Student activity at Helwan University**, *Academic member*

2017 – 2018

I was responsible for recording lectures about Database on YouTube at Da7i7a channel (Link [↗](#)).

Also participated as Public relation member in events.

## Languages

- Arabic Native

- English Fluent

## Education

### **University of Ottawa**,

*Master of Electrical and Computer Engineering* [↗](#)

2021 – 2022 | Canada

Professional master degree in AI and Data Science

### **Helwan University**, *Bachelor of Computer Science*

2016 – 2020 | Cairo, Egypt

Faculty of Computers and Artificial intelligence

GPA : 3.49 / 4 - Excellent

GP : Data Entry Automation System - Excellent

## Projects

### **ML Forecasting**

05-2023 – present

**Time series forecasting** project aims to help our clients to forecast:

- Number of requests they will receive in the next 6 months.
- The cost of handling these requests.
- How many requests they can handle according to their headcount plan.

**Python (FBprophet), AWS, Docker, MySQL, Git, Jira**

### **Digital Twin**, *Big data real time application*

03-2022 – 05-2023

Digital Twin is a digital replica of call centers in multiple markets, which provides:

- 1) Real time monitoring
- 2) Forecasting
- 3) Alerting

**Python (Flask, FB prophet) , Docker, MySQL, GCP, Git, Jira**

### **Closing the gap between Universities and Job Market**,

*Ottawa Graduation project*

2021 – 2022

This project aims to help students or professors to understand the job market by showing them insights from the current job market.

**Python, Selenium, NLP models, Flask, Power BI**

### **Data Entry Automation System**, *Helwan Graduation project*

2019 – 2020

Extract tables (normal or has merged cells) from (printed or handwritten) documents and convert it to excel file after applying **OCR** and multiple computer vision analysis.

- English and Arabic OCR are built **from scratch**.
- Arabic characters dataset is Generated.

**Python, OpenCV, Sklearn, Pytesseract, XlsxWriter, Numpy**