

# Marwan Hatem Mousa

Linkedin

GitHub

Kaggle

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Location : Cairo-Egypt

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Military Service : Completed

## EDUCATION

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### Faculty of Computers and Artificial Intelligence — Sohag University

( GPA: 3.11 )

Bcs. in Computer Science

Sept. 2019 - August 2023

## WORK EXPERIENCE

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### Udacity — Session Lead

Sep 2023 – Present

Remotely – Contract

- Lead live sessions and workshops, deliver engaging lectures, and facilitate interactive activities.
- Provide mentorship and support to students, addressing their questions and concerns.
- Evaluate student progress by reviewing assignments, projects, and coding assessments, offering constructive feedback.

### Samsung Egypt — Samsung Innovation Campus Project

Jun 2021 – Present

Remotely – Part Time

- **Lead AI Facilitator (Aug 2025 – Present):** Supervised a team delivering AI and Data Science training on Python, Statistics, Machine Learning, Deep Learning, LLMs. Maintained high student technical support and engagement.
- **AI Facilitator (Dec 2022 – Jul 2023):** Delivered AI-focused sessions on Machine Learning, Data Analysis, and Deployment for 1,000+ learners. Professionally evaluated student submissions and supported technical inquiries.
- **Lead Coding & Programming Facilitator (Oct 2021 – Dec 2022):** Led a group of facilitators teaching foundational programming concepts. Managed curriculum timelines and ensured consistent content quality.
- **Coding & Programming Facilitator (Jun 2021 – Oct 2021):** Taught programming fundamentals (C, Python, Arduino, Data Structures) to early learners through project-based instruction.
- Designed and implemented Excel automation tools to track grades for 1,300+ students, improving reporting accuracy by 40%.
- Coordinated logistics, scheduling, and communication across five program phases including Algorithms and Robotics modules.

### iSchool — AI Instructor

Aug 2023 – Sep 2024

Remotely – Part Time

- Develop and deliver comprehensive AI curriculum.
- Facilitate learning through effective teaching methods.
- Stay up-to-date with the latest AI advancements and trends.
- Mentor and support students through practical projects and assessments.

### Ministry of Communications and Information Technology — AI Content Creator

Apr 2024 – Jul 2024

Remotely – Contract

- Created educational AI content for the DECI national scholarship program.
- Contributed to curriculum development and design of structured learning materials.

### Banque Misr — Data Science Intern

Oct 2022 – Dec 2022

Cairo – Hybrid

### Technocolabs Softwares — Data Science Intern

Sep 2022 – Nov 2022

India – Remote

## COURSES AND DIPLOMAS

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<b>250HR Diploma in Data Science and AI — Samsung Innovation Campus</b> Key Topics: Python, Statistics, Probability, Linear Algebra, OOP, NumPy, Pandas, Data Visualization, Data Preprocessing, Machine Learning, Deep Learning	Dec 2021
<b>Problem Solving Camp — C++</b> Ranked 1st at Sohag University and 5th overall among 40 students.	Aug 2020
<b>Diploma in Coding and Programming — Samsung Innovation Campus</b> Key Topics: Python, C, Data Structures, Arduino	Mar 2020
<b>Deep Learning Specialization — deeplearning.ai</b> Key Topics: Neural Networks, CNNs, RNNs, LSTMs, Sequence Models	Oct 2025

## PROJECTS

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- **Customer Segmentation Analysis — Banque Misr Internship**  
Performed clustering-based segmentation on customer transaction data to identify behavioral patterns and improve personalized marketing strategy.  
*Technologies: Python, Pandas, Numpy, Scikit-learn, Clustering, Machine Learning, Data Preprocessing, Data Visualization, Data Modeling*
- **Stock Price Prediction — Banque Misr Internship**  
Built and evaluated regression models achieving 85% accuracy on multi-bank stock datasets using the Yahoo Finance API.  
*Technologies: Python, Pandas, Numpy, Machine Learning, Time Series Analysis, Data Preprocessing, Data Visualization, Data Modeling, API*
- **ATM Route Optimization — Banque Misr Internship**  
Developed shortest-path optimization algorithm to enhance ATM cash distribution efficiency across Egypt, reducing total route length.  
*Technologies: Python, Graph Algorithms, Web-scraping*
- **Hit Song Prediction — Technocolabs Internship**  
Developed predictive modeling project “Hit Song Prediction” to forecast song popularity based on chorus repetition and audio features from the YouTube API.  
*Technologies: Flask, Scikit-learn, Data Preprocessing, Visualization, GitHub, API*
- **Portuguese Bank Marketing — EDA & Modeling — Kaggle**  
Performed exploratory data analysis and built classification models for bank marketing conversion using Python, Pandas, and Scikit-learn. Achieved 95% accuracy using XGBoost with SMOTE for imbalance handling.  
*Technologies: Python, XGBoost, SMOTE, Scikit-learn, Pandas, Data Visualization*
- **E-Commerce Customer Churn — End-to-End ML Pipeline — Kaggle**  
Built an end-to-end ML pipeline for customer churn prediction in an e-commerce environment: cleaned transaction data, engineered features, and deployed a predictive model that reduced churn by 20%.  
*Technologies: Python, Feature Engineering, Scikit-learn, Flask, Pandas, Dashboard Visualization*

## LANGUAGES

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Arabic: Native

English: B2