Marwan Hatem Mousa

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Military Service : Completed

EDUCATION

Faculty of Computers and Artificial Intelligence — Sohag University   **(GPA: 3.11)**
Bcs. in Computer Science   Sept. 2019 - August 2023

WORK EXPERIENCE

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.Designed and implemented Excel automation tools to track grades for 1,300+ students, improving reporting accuracy.

– **Coding & Programming Facilitator (Jun 2021 – Oct 2021)**: Taught programming fundamentals (C, Python, Arduino, Data Structures) to early learners through project-based instruction.

iSchool — AI Instructor   Aug 2023 – Sep 2024
Remotely – Part Time

– Develop and deliver comprehensive AI curriculum.

– Facilitate learning through effective teaching methods.

– 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

250HR Diploma in Data Science and AI — Samsung Innovation Campus Dec 2021
Key Topics: Python, Statistics, Probability, Linear Algebra, OOP, NumPy, Pandas,
Data Visualization, Data Preprocessing,Machine Learning, Deep Learning

Problem Solving Camp — C++ Aug 2020
Ranked 1st at Sohag University and 5th overall among 40 students.

Diploma in Coding and Programming — Samsung Innovation Campus Mar 2020
Key Topics: Python, C, Data Structures, Arduino

Deep Learning Specialization — deeplearning.ai Oct 2025
Key Topics: Neural Networks, CNNs, RNNs, LSTMs, Sequence Models

Projects

– **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

– **Be My Tongue** — Graduation Project
A web based assistive tool for mute individuals enabling two way communication through video to text and
text to video translation.Integrates computer vision for sign language recognition and NLP for semantic
text processing focusing on accessibility and real-time interaction.
Technologies: Python, Computer Vision, NLP, Text Preprocessing