Marwan Hatem Mousa

Data Scientist

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LinkedIn · **GitHub** · **Kaggle** · **Portfolio**

SUMMARY

Data Scientist and AI Engineer with 4+ years of experience in EduTech, delivering predictive modeling, NLP, and deep learning solutions for organizations like Samsung and Udacity. Skilled in transforming data into actionable insights and scalable AI applications. Strong leadership in mentoring teams and driving innovation in data driven projects.

EDUCATION

Faculty of Computers and Artificial Intelligence — Sohag University   Sept. 2019 - August 2023
Bcs. in Computer Science

WORK EXPERIENCE

Udacity — Session Lead   Sep 2023 – Present
Remotely – Part Time

– Lead live sessions, mentor students, and evaluate technical programming assessments to support learner progress.

Samsung Egypt — Samsung Innovation Campus Project   Jun 2021 – Present
Remotely – Part Time

– **Lead AI Facilitator (Aug 2025 – Dec 2025)**: Supervised a team of facilitators delivering training in Machine Learning, Deep Learning, and LLMs to +90 Student.
– **AI Facilitator (Dec 2022 – Jul 2023)**: Delivered Data Analysis,Machine Learning and Deep Learning sessions to learners and professionally evaluated technical submissions.
– **Lead Coding Facilitator (Oct 2021 – Dec 2022)**: Managed a team of 60+ facilitator reaching 1,300+ student, developed Excel automation tools to streamline grade tracking and reporting.
– **Coding Facilitator (Jun 2021 – Oct 2021)**: Delivered programming fundamentals (C, Python, Data Structure,Algorithms, Arduino) to early programming learners.

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

– Develop and deliver comprehensive AI curricula while mentoring students through practical projects and assessments to facilitate effective learning.

MCIT — AI Content Creator   Apr 2024 – Jul 2024
Remotely – Part Time

– Created educational AI content for the DECI national scholarship program.

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, Machine Learning, Deep Learning

Deep Learning Specialization — deeplearning.ai   Oct 2025
Key Topics: Neural Networks, Computer Vision, Natural Language Processing

PROJECTS

- **Customer Segmentation Analysis — Banque Misr Internship**
  Applied clustering algorithms to customer transaction data to identify behavioral patterns for personalized marketing strategies.

- **Stock Price Prediction — Banque Misr Internship**
  Developed regression models achieving 85% accuracy on multi-bank stock datasets using Yahoo Finance API.

- **ATM Route Optimization — Banque Misr Internship**
  Engineered a shortest-path optimization algorithm to enhance ATM cash distribution efficiency across Egypt, significantly reducing total route length.

- **Hit Song Prediction — Technocolabs Internship**
  Built a predictive model to forecast song popularity using audio features and chorus repetition metrics via the YouTube API and Deep Learning different techniques.

- **Portuguese Bank Marketing — EDA & Modeling — Kaggle**
  Achieved 95% accuracy using XGBoost and SMOTE for classification, handled significant class imbalance to optimize model accuracy.

- **E-Commerce Customer Churn — End-to-End ML Pipeline — Kaggle**
  Developed an end-to-end ML pipeline with feature engineering and Flask deployment

- **Be My Tongue — Graduation Project**
  Developed an assistive web tool using Computer Vision and NLP for real-time sign language-to-text and text-to-video translation in both languages Arabic and English.

SKILLS

Technical Skills: Python,SQL,Scikit-learn,TensorFlow,Keras,NumPy,Pandas,Data Collection,Data Cleaning,Data Visualization,Data Modeling,Web Scraping,Selenium,BeautifulSoup,Matplotlib,Seaborn, Streamlit,Deployment, Machine Learning,Deep Learning,NLP, Time Series, Computer Vision, Feature Engineering,Git/GitHub, Kaggle, Google Colab, Excel Automation, Power BI .

Soft Skills: Leadership,Communication,Problem Solving,Team Collaboration,Adaptability,Time Management,Analytical Thinking,Active Listening .

LANGUAGES

Arabic: Native | **English**: B2