

OMAR SAFWAT

AI / ML Engineer

Alexandria, Egypt

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Pursuing a career in AI and Data Science. Extensive background in various engineering disciplines, with a two years hands-on experience in team leading and project management.

Education

Information Technology Institute “ITI”, Egypt.

04/2021 – In progress

EPITA - School of Engineering and Computer Science, France.

Ministry of Communication and Information Technology, Egypt.

Postgraduate Diploma in Artificial Intelligence – 9 Months

Expected Graduation: 12/2021

Alexandria University, Egypt.

09/2015 - 09/2020

B.Sc in Mechanical Engineering

Grade: Very Good

Work Experience

VRapeutic inc.

10/2021 – On going

Deep Learning Intern

- Building a 3D Hand-Pose Estimation model using RGB-D data and Pseudo-LiDAR representations.
- Deploying a WebApp for use on Mobile phones to provide a gamified learning experience.

Data Glacier

02/2021 – 05/2021

Data Science Intern

- Accomplished integral tasks on a collection of structured data; data ingestion, schema validation, data preprocessing, and EDA.
- Worked in an Agile environment to develop and deploy a machine learning WebApp that classifies NTM patients (Nontuberculous Mycobacteria) according to their level of medication adherence.

Final project: https://github.com/Omar-Safwat/HealthCare_project/tree/main/Week_13

- Reduced the autonomous glider’s weight by 30% through more effective manufacturing techniques and incorporating lighter materials.

Professional Certificates

- [DataCamp Certified “Professional Data Scientist”](#)

9/2021 – 9/2023

Technical Skills

Programming languages:

- *Python*
- *R*
- *C/C++*
- *Java*

Data Science Frameworks:

Data manipulation

- *Pandas*
- *Numpy*
- *Dask*

Machine Learning

- *TensorFlow*
- *Keras*
- *Apache Spark*
- *Scikit-Learn*

Data Visualization

- *Matplotlib*
- *Seaborn*
- *Plotly*
- *Dash*

Database and System Admin:

- *Git*
- *SQL*
- *MongoDB*
- *Linux, Admin 1*

Extracurricular Activities

Kaggle Competition

10/2021 – On going

- Arabic Handwritten Characters Recognition

Ericsson Together Apart Hackathon

10/2021 – On going

- Identify and innovate and commercially viable prototypes to promote connectivity and smart agriculture using AI and data analytics.

SAE Aero Design Advanced Class Competition

08/2018 - 09/2020

Design Sub-team leader and stability analyst.

- Co-authored the technical design report securing the 1st place medal in 2019.
- Introduced more accurate mathematical models for predicting aircraft's Take-off and landing performance.
- Innovated and manufactured the team's first Autonomous glider design.

Relevant Coursework

- Data Science Career Track, Data Camp.
- Data Science Specialization, John Hopkins University, Coursera.
- Machine Learning, Stanford University, Coursera.
- Python Fundamentals Track, DataCamp.
- Coding for Everyone: C and C++ Specialization, University of California, Santa Cruz, Coursera.
- AWS Cloud Practitioner
- AWS Machine Learning Foundations

Languages

Arabic: Native Language.

English: Fluent – IELTS Academic Band Score: 8.0 / 9.0.

German: Intermediate – Goethe Institute Certificate: B2 level.