Abdelrahman Arafa
Software Developer

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PROFILE

Passionate about developing applications powered by Machine Learning and Artificial Intelligence.

PROFESSIONAL EXPERIENCE

Software Development
Upwork ☐
01/2022 – present

- **Immersion Analytics** ☐
  - Data Processing.
  - Data Visualization.
  - API Documentation.
- **Other projects include**
  - Financial simulation platform.
  - Algorithmic trading.
  - Develop Machine Learning models
  - Develop Dashboards for Visualization.

Machine Learning Engineer Internship
Brightskies ☐
10/2021 – 01/2022 | Alexandria, Egypt

Physics Modeling of 2D acoustic wave for Seismic Applications.

Scada Operation Engineer
VA-Tech Wabag ☐
05/2019 – 04/2021 | Cairo, Egypt

Water Treatment Plant Operation & Scada Engineer.
Contributed To :

- Developing basic data analysis & statistics software for easier exploration of plant data and report gathering (Using C#-WFA).

Embedded System Developer
TechMaker
03/2018 – 05/2019 | Alexandria, Egypt

Programming Embedded system devices.
Contributed to :

- Temperature & Humidity Controller (Using MikroC, pic16f877a controller).
- Azan Clock (Using MikroC , pic16f877a controller).

SKILLS

Technical Skills — Data Preparation Exploration and Analysis, • Building Machine Learning Model either Supervised or • Unsupervised. • Backend development using Django framework.

Confident Using libraries like : — Numpy - Pandas - Scipy - Sklearn. • ,Matplotlib - Seaborn - Plotly - Dash. • ,Tensorflow - PyTorch. • Django

Programming Languages — Python, Java, C/C++, C#

EDUCATION

Artificial Intelligence Professional Program
Information Technology Institution ITI - Powered by EPITA ☐
04/2021 – 01/2022

Graduation Project
Physics Modeling (Supervised by BrightSkies)

- Developing a Physics Informed Neural Network (PINN) for seismic applications.

Bachelor of Nuclear and Radiation Engineering
Alexandria University
2016

GPA : 3.13/4.0
Graduation Project
Nuclear Reactor 3D Visualization

- Python Scripting the 3D simulation environment (using Vizard 3D), 3D Models Design (Blender3D).

EXTRACURRICULAR ACTIVITIES

Kaggle In-Class Competitions
Data Analysis
Seoul Bike Rental Prediction (3rd Place ☐).

- Data Analysis, ☐ Feature Engineering and Model Training.

Dry-Beans-Classification (1st Place ☐).

- Data Analysis ☐ , Feature Engineering, Model Training.

COURSES

Coursera
- Mathematics for ML: Linear Algebra
- Deep Learning Specialization

DataCamp
- Python Fundamentals Track
- Data Scientist Track

Udacity
- Advanced Data Analysis Nanodegree.