Abdelrahman Arafa

Software Developer

✉ a.a.fathi@live.com   📞 +201025437552   in A.Aladdin   ⌖ A.Aladdin   kaggle A.Aladdin   📍 Alexandria, Egypt

PROFILE

Passionate about developing Machine Learning and Artificial Intelligence applications, with experience in data preparation, data analysis, and Modeling.

PROFESSIONAL EXPERIENCE

Software Development
Upwork ⧉
01/2022 – present

- **Immersion Analytics** ⧉
  - Data Processing.
  - Data Visualization.
  - API Documentation.
- **Other projects include**
  - Algorithmic trading.
  - Develop Machine Learning models
  - Develop Dashboards for Visualization.
  - Develop website backends using Django.

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).

PROJECTS

Twitter sentiment analysis (Arabic) ⧉
building a simple deep learning model to classify Arabic tweets with two sentiment labels either positive or negative. using Pytorch and LSTM Sequence Model.

Sales Chatbot ⧉
Building mini sales chatbot that can help customers using Pytorch (bow model).

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

Udacity
- Advanced Data Analysis.
- Data Analysis Challenger.