

Amira EssamEldin Ibrahim Elgebaly

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Education

[June 2021 - May 2022]

Master of Engineering in Electrical and Computer Engineering in AI and Data Science, uOttawa university

- Digital Egypt Builders Initiative program.
- Courses: ML, NLP, Data Science Fundamentals, Smart Cities, AI for Cyber Security, Computer Vision, Cloud Analytics.

[August 2020]

Bcs of Computer and Information Sciences, Ain Shams University (ASU) Grade: **Excellent with honors**

- Department : Scientific Computing (3rd in the department).

Work Experience

[Jan. 2021 – May 2021]

Junior Software Engineer at Softec Technologies

- Job description: Full stack development using .Net Core & Angular.

Training

[sep. 2021]

Seeds For the Future Program [Leadership Course Report](#) - **Huawei**

[June 2021 - Aug. 2021]

Communication, Leadership and Management Skills Training - **Dale Carnegie**

[Nov. 2020]

One-month Internship, Back-end Developer (.Net, Entity Framework 6, Web API) - **Softec Technologies**

[Sep. 2019]

One-month Internship, web development track (Angular) - **Softec Technologies**

Certificates

[Dec., 2021]

[Huawei](#) HCIA-Big Data.

[Sep., 2021]

[DELL](#) Specialist – Data Scientist, Data Engineering Version 1.0.

[Aug., 2021]

[DELL](#) Specialist – Data Scientist, Advanced Analytics Version 1.0.

[July, 2021]

[DELL](#) Associate – Data Science Version 2.0.

[June, 2021]

[IBM](#) predictive Analytics Modeler 2020 – Mastery certificate.

[Jan, 2020]

[Coursera](#) Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization.

[29 July, 2019]

[Coursera](#) Neural Networks and Deep Learning.

[13 July, 2019]

[IBM](#) predictive Analytics Modeler 2018 – Mastery certificate.

[Feb, 2019]

[IBM](#) Cloud Application Developer 2018 – Mastery Award for Students.

Technical skills

- Machine Learning , Deep Learning, Computer Vision, NLP.
- **Big Data:** Databricks , Azure DataLake Analytics, Hadoop, spark, kafka.
- **Programming Languages:** Python, Familiar with (C++, C#, Assembly, C).
- **Development Technologies:** pandas, Scikit Learn, Numpy, Pytorch ,Keras ,Angular ,OOP, MySQL , Sql Server ,Oracle ,No SQL.
- **TOOLS / IDES:** Pycharm, Visual studio, visual studio code, Arduino IDE, Atmel Studio.

Projects

- **Predicting Protein's melting point - Stability measurement-** (Master's Graduation project)
 - **Description:** Scripting Tools to predict melting point using primary protein sequences to know its stability. The Goal is to filter a large number of sequences finding ones with high stability to be used in Drug design.
 - **Environments:** Saturn Cloud, AWS Cloud, PaperSpace.
 - **Techniques:** Pytorch, Transformers, RandomForest, Neural Networks, CNN, Anaconda.
- **Controlling Mobile phones for blind people** (Graduation project)
 - **Description:** an android application that helps blind people to make calls, send messages , send emails , deal with audio files with Arabic voice commands and without any visual interaction.
 - **Techniques:** LSTM, CNN, signal processing, speech recognition, keras, DCGAN, WaveGAN.
- **Insider Threat Detection**
 - **Description:** An insider threat detection system that leverages log files ingested by Kafka topics to predict any malicious activities carried out by employees in an organization. The detected malicious activities are then sent to a Kibana dashboard in real time for threat analysts to take action proactively. Dataset used for insider threat activities is CERT5.2.
 - **Techniques:** python, pandas, RandomForest, Catboost, XGBoost, kafka, Kibana.
- **Research Paper Recommendation**
 - **Description:** A conversational recommender system that recommends papers for a user based on similarity with a query paper or a query field. Google Dialog flow was used to build the chatbot interface.
 - **Techniques:** NLP, TF-IDF, LDA ,Doc2vec, Multi-output classifier, classifier chain, RandomForest, clustering , Google dialog flow.
- **Activity Recognition**
 - **Description:** Classify videos into Diving, Jumping, Basketball, Tennis, or Walking.
 - **Skills:** balance dataset, pytorch, data visualization.

Competitions

[2019] MATE ROV Arab Competition:

- responsible for the camera system in ROV competition.
- use the smart **PSS program** for navigation.
- Got Camera Streams

[2017] Robot Fighter (IEEE in CIC)

Extracurricular Activities

Volunteer Work

- HR Member at Robotech -ASU. [2018 : 2019]
- Technical member at RoboTech-ASU. [2017: 2018]
- Assembly Moderator at FCIS Encapsulation. [2018]

Personal Information

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| ● Date of Birth: | ● Nationality: | ● Languages: |
| 1-Jan-1999 | Egyptian | Arabic (Native language) , English (V. Good) |