Mohamed Aesawy

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https://github.com/MMAesawy   https://www.linkedin.com/in/mmaesawy   https://kaggle.com/mmaesawy

Education

Cairo University – Faculty of Computers and Information

College junior (3rd level)   Admitted Sep. 2016

Computer Science Major

Specializing in Decision Support & Operations Research   Expected graduation date: Jul. 2020

Current GPA: 3.57 (Ranked 6th among students in the same level)

El Nasr Exp. Language School (Egypt)   Graduated Jul. 2016

Brookfield East High School (U.S.A.)   Sep. 2014 – Jun. 2015

Work Experience

Cubex Solutions L.L.C.

Intern Machine Learning Engineer (Python, R)   Aug. 2017 – Dec 2017

- Responsible for cleaning, preprocessing, and creating predictive models on business datasets.
- Applied clustering techniques to segment business datasets.

First Robotics Competition (FRC) Team 2202

Programming team member (C++)   Jan. 2015 – Mar. 2015

- Held regular meetings with fellow students and mentors to design the software controller of a robot.
- Coded the controls of a robot which became a finalist at the First Robotics Wisconsin regional competition.

Activities

FCI Machine Learning Club (MLC)

Founder   Apr. 2018 – present

- Founded and organizes a student club which provides ML workshops and competitions for FCI students.

Workshop Instructor   Apr. 2018 – Jun. 2018

- Instructor for an ML/DL workshop attended by about 30 FCI students, with the goal of explaning the concept of machine learning, what makes up an ML algorithm, and how to evaluate a predictive model.

Intel AI

Student Ambassador   Jan. 2018 – present

- Selected to organize activities and hands-on training promoting Intel's products to the Cairo University student developer community.

Cairo University ACM competition team (beta level)

Competitor   Sep. 2016 – Jun. 2017

- Active participant in competitive programming training sessions and local competitions.
- Regularly placed in the top 10th percentile of all competitors.

Interact Club

Volunteer   Oct. 2014 – Jun. 2015

- Completed over 20 documented hours of volunteer community service.

Brookfield East Rock Climbing Team

Participant   Oct. 2014 – Jun. 2015

- Active participant in a high school team that won the 2014–2015 Wisconsin state championship.

Skills

Experienced

- Python
- R
- C/C++
- Java
- Scikit-Learn
- Keras
- NumPy
- Pandas
- Matplotlib
- Jupyter Notebooks
- Data structures & algorithms
- OOP
- Mathematical optimization

- Machine Learning
  - GLMs
  - Trees
  - SVMs
  - Clustering
  - Hyperparameter optimization
- Deep Learning
  - MLPs, CNNs, RNNs
  - Model diagnosis
- Feature engineering
  - Predictor selection
  - Data cleaning
  - Data augmentation

Proficient

- Tensorflow
- Natural Language Processing
- SQL
- Relational models
- SQL Server
- JavaFX (UI/UX)
- Android Development
- PHP

Familiar

- HTML
- CSS
- Javascript
- C#
- .NET framework

General skills

- Unix command line
- Git
- Public Speaking

- Photoshop, GIMP 2.0
- Illustrator, Inkscape
- Microsoft Office, LibreOffice

Achievements

Intel AI DevCon 2018 (San Francisco)

Participant/Student Representative   May 2018

- Invited by Intel to attend the convention and meet up with other student ambassadors from all over the world. Showcased a computer vision model that detects signs of pneumonia in X-ray scans with 86% test accuracy.

Emirates NBD S.A.E. Future Intelligence Program 2017

3rd Place Winner   Dec. 2017

- Won 3rd place at a national youth innovation challenge by presenting innovative banking solutions to a panel consisting of several high profile individuals in the Egyptian financial services industry.

KL-YES (Kennedy-Lugar Youth Exchange & Study)

Exchange Student   Sep. 2014 – Jun. 2015

- Selected based on leadership qualities and strong character to live and study in the United States for a full academic year on a program fully funded by the U.S. Department of State.

Civic Education Workshop

Participant   Feb. 2015

- Selected from KL-YES students to be part of a leadership enriching workshop, in which participants advocated to U.S. Congress representatives and senators the continuation of KL-YES funding.

Reading

- Introduction to Statistical Learning — Hastie et al.
- Elements of Statistical Learning — Hastie et al.
- Deep Learning — Goodfellow et al.
- Python Machine Learning — Sebastian Raschka
- Deep Learning with Python — Francois Chollet