

7 El sayed gohr street,
Abdeen, Cairo, Egypt

MAGDY HASAN

[Github](#) - [LinkedIn](#)

(+20) 1288300677
magdy.hasan17@gmail.com

EDUCATION

- Incomplete M.Sc in computer science, Cairo University, Aug2019-Aug2020
- Bachelor's Degree, Computer Science, Thebes University. GPA: 3.44

EMPLOYMENT

Junior Machine Learning Engineer	Algorithm	Aug 2020 – present
<ul style="list-style-type: none">• Working on detecting road damage, training different models, such as detectron2 and yolov5, using different datasets such as rdd and our collected data		
Computer Vision, Intern	Algorithm	Aug 2020 – Oct 2020
<ul style="list-style-type: none">• Worked on building a generic framework for parallelizing preprocessing and loading multiple datasets at once using Python. Fine-tuning yolov5 for custom datasets using Pytorch, Training on AWS using COCO and OpenImages datasets, and building scripts for automating AWS usage using Boto3.		
Software Engineer, Intern	DevisioNX	Jun 2018 – Aug 2018
<ul style="list-style-type: none">• A project to automatically verify ID information, I worked on developing models for segmentation and recognition of Arabic words using TensorFlow, and also did some backend development using python Flask		

COURSES

- Deep Learning, a 5-course specialization by deeplearning.ai ([Certificate](#)).
- Udacity Machine-Learning-Engineer-Nanodegree-Program ([Certificate](#)).

Projects

- [Ecommerce website](#) (**Java Spring, Angular**): Main functionality of ecommerce website using Spring as a backend, Angular as frontend and MongoDB for the database
- [Questions and answers](#) (**JSP, Servlets and MySQL**): This a questions and answers system (like ask.fm) with functionality such as ask/answer questions, search users, add friends, etc.
- [Human-Action-Recognition](#) (**Keras, Python**): Using ucf101 dataset, trained lstm/cnn models based on extracted features from pre-trained vgg16 and got 92% validation accuracy for 101 action categories .
- [Gender-Age predication](#) (**Keras, Python**): Given a face image, predict whether the person is male or female, Got a validation accuracy of 0.889 on Adience Benchmark dataset, Used a pretrained InceptionResNetV2 model, working on age predication using IMDB dataset
- [Face recognition/keypoints/smile/blink](#) (dlib, Python): Using dlib facial keypoints to build face recognition and smile/blink detection, works in real time with great result
- [Stores Future Sales Predicition](#) (**sklearn, Python**): Dataset from kaggle competition Predict Future Sales competition. Time-series task, task is to predict sales of next month, Did feature engineering, Added mean encoding features and lagged features, Used an ensemble of RandomForest, lightgbm, SGD
- [Arabic Image Captioning](#) (**Keras, Python**): Used Flickr8k_Dataset and used Bing translator for translating, Used Arabic word2vec ([AraVec 2.0](#)), result is not good because the bad translation
- [Education-management-system](#) (c++): student register courses, adding/manage students/courses/assignment.

COMPETITIVE PROGRAMMING

- ICPC: ECPC 2019 – 37th, [ECPC 2018](#) – 64th, [ThebesAndElShoroukCPC 2018](#) – 1st, [ECPC 2017](#) – 86th, [ACPC 2017](#) – 66th, [ECPC 2015](#) – 3 problems Solved, [ACM ECPCQ 2017](#) – 2nd
- Facebook Hacker Cup 2019: Round 2: 775th, Round 1: 1499th
- [Codeforces](#) Rating 1709, 865 Problem Solved, [Topcoder](#) Rating 1535, 430 Problem SolvedJudge at 4 ACM Egypt locals 2019

Skills

- C++, Java, Spring, JSP & Servlets, , MySQL, NoSQL, Python, Linux, JavaScript, HTML, CSS, Pytorch, TensorFlow, Keras, Algorithms, Data structure, Visual studio, Eclipse, Github

Interested In

- Web development, Distributed Systems, Operating systems, large scale projects, Programming competition, Artificial Intelligence, Machine Learning, Deep learning.