Loay M.Wael

SKILLS

Programming
Python, C++11, C, Matlab, Embedded

Computer Vision
OpenCV, Dlib, MTCNN, Tesseract

Machine Learning
Scikit-learn, Pandas, Numpy, Scipy

Deep Learning
TensorFlow, PyTorch

OS & Tools
Linux, Git, CMake, Carla, Jupyter

TRAINING & COURSES

[In-progress]
[TTT] Epita Artificial Intelligence
Toronto Self-Driving Specialization
Udacity Computer Vision course
Pennsylvania Robotics Perception
[Completed]
Udacity Deep Learning Nanodegree
deeplearning.ai Specialization
Andrew Ng. Machine Learning
Pluralsight Intermediate C++ [188/200]

LANGUAGES

Arabic — Native
English — Fluent
Germany — A1

PERSONAL INFORMATION

Address: Al Manyal Cairo, Egypt
Birth Date: 26, Aug 1996
Military Status: Temporarily Exempt

CONTACTS

(+20) 111-679-9691
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github.com/loaywael

WORK – EXPERIENCE

ITI | Artificial Intelligence Teacher
[Oct 2020 – Present] — part-time

- Preparing courses in the 9-month AI diploma.
- Teaching [ML, CV] courses in the 9-month AI diploma
- Contributing to ITI other AI activities/programs.

Artronix | Machine Learning Engineer
[May - July 2020] — internship

- Lane Keeping Assist – [Git-Repo]

Developed advanced lane detector that captures curved lanes estimating their radius of curvature, and the vehicle offset from the lane center, using Python and OpenCV.

- Vehicle Localization – [Git-Repo]

Designed HOG Object Detector to detect and track urban vehicles, using Python, OpenCV, and Scikit-learn.

- Image Recognition – [Git-Repo]

Developed Resnet-v2 in TensorFlow 2. Improved accuracy from 88% to Accuracy: 92%, Recall: 92.3%, Precision: 93% using optimization. Benchmarks on CIFAR10 dataset.

EDUCATION

M.Sc Mechatronics Engineering
[2020-2022] — Ain-Shams University
Research student in Artificial Intelligence with interest in Robotic Perception, working on 3D object detection using stereo vision to catch-up LiDAR results.

B.Sc Mechatronics Engineering
[2014–2019] — Higher Technological Institute
Graduation Project | Wearable Heart Activity Tracker

- Developing an M.L. model to predict heart attacks.
- Participated in the Global Conference (GCIoT) 2017.

VOLUNTEERING

- Business Dev. Lead at Apex Racing Team [Dec 2018]
- Chairman IEEE Student-Branch [May 2017 – Aug 2018]

ACHIEVEMENTS – AWARDS

- Landed the business award for preparing and pitching the business plan, and won the 3rd position in the race in EVER E-Vehicles Competition by iHub.
- Won 3rd Position in the clean env track in the Science Club Competition by the Ministry of Higher Education.