Usama Ahmed Kawashty

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Education

Level: Senior-2 (4th year)

Faculty of Engineering, Ain Shams

University

Computer and Systems Engineering

Department

Current CGPA: 3.31

Courses

- CS50's Introduction to Computer Science
- Udacity's Professional Data Analysis Nanodegree
- Machine Learning Specialization - DeepLearning.AI
- Deep Learning Specialization – DeepLearning.AI
- TensorFlow Developer Specialization– DeepLearning.AI

Knowledge

- Math: Single and multivariable Calculus, basics of linear Algebra, Probability and Statistics, Discrete Mathematics, and basics of Signal Processing.

- CS: Data Structures, Algorithms, Compilers, Cryptography, OS, Database Systems design and implementation, good knowledge of Object-Oriented programming principles, Logic combinational and sequential circuits, MIPS processor internal design and assembly.

- ML/DL: Good Knowledge of Machine Learning techniques including Linear and Logistic Regression, Support Vector Machines, and Decision Trees, and Deep Learning architectures including Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Transformers and Generative Adversarial Networks.

Projects

- Vjudge Contest Analyzer: a python API to scrape competitive programing contests.
- Lane and Vehicle Detection using HOG features and SVM classifier.
- Process Scheduler: different Algorithms
- Multithreaded DES Implementation
- SSE: mini social media web app
- XML validator, formatter, and converter
- Covid-19 symptoms and fatality classifier.
- selenium YouTube playlist views scraper
- web dashboard to preview renting data.
- WhatsApp automation from CSV File.
- GPS Tracking System using microcontroller.

Labelmm

An Open-source Auto Annotation Tool for Computer Vision Dataset making, the tool supports object Detection, instance segmentation, and object Tracking with SOTA models. The Tool supports different export options to common dataset formats e.g., COCO and MOT. The tool Allows manual editing with different options to increase performance and throughput of the Annotation Proces