Ahmed Kamel Badr

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EDUCATION

B.Sc. University of Alexandria **Sept. 2017 - Feb. 2022**

Building computer science basics, and understanding the core of CS fundamentals with CGPA:3.52/4 (Excellent)

Deep Learning Nanodegree Udacity **July. 2021 - Oct. 2021**

Micro-master in Deep Learning from Udacity that coverage neural networks techniques, Convolutional Neural Networks, Recurrent Neural Networks, Generative Adversarial Networks and their applications within six modules.

HIGHLIGHTED PROJECTS

Identity verification system (graduation project)

- identity verification system uses facial recognition to fasten the manual identification process and also creating identification logs used in analysis, and facilitate searching for person's identity through CCTV recordings if something happened
- System components
  - card reader for reading the students id using Arduino for card detection, and also displaying results of the identification process on a led grid, and a camera for reading the id number using text recognition
  - face descriptor, Tensorflow CNN model for feature extraction built on inceptionresnetv2 via transfer learning, trained on celebrity faces dataset with 83% accuracy and Labeled Faces in the Wild dataset with 95% accuracy

AB-FIX (freelancing working project)

- Desktop application implemented in Java, with a local centralized database management system (ORACLE) , used in maintenance centers (currently working in shiko store 'computer repair shop' for 1 year)
- The application works on recording maintenance data and generating full reports by tracking all maintenance stages
  - Collects client's data for the first time only, devices, all required maintenance needs for each device, prints receipt
  - Collects maintenance data, changed spare parts, services done, employee name and, creates full invoice on client account
  - records employs activity, logs all money transactions

Sentiment Analysis with an RNN

- using RNN with embedding and hidden LSTM layers that predicts the sentiment of a given movie review.

Generate Faces

- Using deep Convolution Generative Adversarial Networks to generate realistic images of faces from using dataset of people faces.

AWARDS

- **ACPC 21** **Dec. 2021**
  The 2021 ICPC Africa & Arab Collegiate Programming Championship 74th place out of 150 teams from top Arab programmers
- **ECPC 21** **Aug. 2021**
  Egyptian Collegiate Programming Contest winning 53rd place out of 230 teams in ECPC 21 and qualified to ACPC
- **ECPC 21 qualifications:** **Aug.2021**
  Egyptian Collegiate Programming Contest winning 7th place and 1st place on my college and qualified to ECPC
- **ECPC 20 qualifications:** **Nov.2020**
  Egyptian Collegiate Programming Contest qualifications winning 18th place

TECHNICAL SKILLS

- Languages: Python, Java, C++
- Machine learning libraries: Pytorch, Tensorflow, Skitlearn
- Data analysis and visualization: Pandas, Numpy, matplotlib

CERTIFICATIONS

- Object-Oriented Design (Coursera) Mar. 2022
- Machine Learning Cross-Skilling (Udacity) Jan. 2022
- AWS Machine Learning Foundations (Udacity) Oct. 2021
- Mathematics for Machine Learning Specialization (Coursera) Apr. 2021
- Neural Networks and Deep Learning (Coursera) Jun. 202