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EMPLOYMENT

Artificial Intelligence Engineer	Synapse Analytics	Nov 2018 – Present
<ul style="list-style-type: none">Working on a descriptive analysis for the UPS logs; detected the most frequent patterns using brute force algorithm.Azka Robot, worked on a technology that controls the robot movements using neural networks; generated a dataset for hand gestures using photoshop; used data augmentation techniques; used transfer learning techniques to extract all the feature from pretrained Xception model; achieved an accuracy of 96% on the testing dataset [Libraries: imgaug, Pytorch, OS, scikit-learn, NumPy, Technology: Python].Chicks Counting System, built a system on top of TensorFlow Object Detection API to detect and count chicks in videos/real time using pretrained MobileNet SSD detection network on COCO dataset; fine-tuned the model and applied data augmentation techniques [Libraries: TensorFlow, PIL, NumPy, OpenCV, Technology: Python].		

EDUCATION

Online	Microsoft	July 2018 – Sep 2018
<ul style="list-style-type: none">Microsoft professional program for artificial intelligence track.		
Cairo, Egypt	Misr International University	Sep 2013 – July 2018
<ul style="list-style-type: none">BS in Electronics and Communications EngineeringUndergraduate Coursework: Algorithms; C/C++; Comp. Architecture; Calculus III; Microprocessor; Statistics; Cryptography.		

TECHNICAL EXPERIENCE

Projects

- Real Time Emotions Detection.** Detected faces in real time using **Haar Feature-based Cascade Classifier**, trained **Xception** on facial expression recognition dataset to predict the probabilities of mixed emotions the face has, achieved 66% accuracy.[**Libraries**: Keras, NumPy, OpenCV, Pandas, SciPy, OS, **Technology**: Python], [link](#)
- Kaggle Project: Titanic Survivors.** Predicted the survived/non-survived passenger based on their features; conducted data cleaning, imputed missing values and created new features to improve model performance.[**Libraries**: Pandas, NumPy, Keras, seaborn, matplotlib, **Technology**: Python], [link](#)

ADDITIONAL EXPERIENCE AND AWARDS

- Volunteer (2015 – 2017):** Played the roles of the ambassador of Sudan in 2015 and the king of Saudi Arabia in 2017, negotiated with allies and adversaries, resolved conflicts and achieved peace with Yemen as a part of the **Arab United Nation Model** at University.
- Volunteer (2014):** Was responsible of holding the charity work like visiting orphanages and giving MIU students the chance to help these children and make them happy, organizing orphan's day on campus and organizing blood donation campaigns as a part of ASCC charity foundation.

Languages and Technologies

- Python (Pandas, Matplotlib, Pytorch, Keras, sklearn, NumPy, SciPy); familiar with: C++, MATLAB
- CNN; Computer vision; Natural language processing; Random forest; Decision trees; Linear/Logistic regression; Git
- Languages: Arabic (Native); English (Advanced); German (Intermediate)
- Soft skills: Leadership; Public speaking; Agile development