

# AHMED KHALED MOHAMED SALAH ABDELRAHMAN

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## EDUCATION

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<b>Systems and Biomedical Engineering Department - Cairo University</b>	Giza, Egypt
Senior Undergraduate <i>GPA: 3.9</i>	September 2016 - May 2021

## SKILLS

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Python:	Conditionals, Loops, Functions, OOP, I/O Files, Packages
Machine Learning:	Scikitlearn, Linear Regression, Logistic Regression, SVM
Deep Learning:	Kears
Data Analysis with Python:	numpy, pandas, matplotlib, Hypothesis Testing, Visualizations
Front End Development:	HTML, CSS, JavaScript, Bootstrap
Back End Development:	Databases; MySQL, Flask
GUI Desktop:	PyQt

## GRADES AND SCORES

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<b>First Year 2017/18</b>	Excellent 92.33% - Second in Class
<b>Second Year 2018/19</b>	Excellent 94.86% - First in Class
<b>Third Year 2019/20</b>	Excellent 92.74% - First in Class
<b>IELTS 2017</b>	6.5

## PROJECTS

### Medical Appointments No Show Dataset Analysis *Python*

<https://github.com/AhmedKhaled8/Medical-Appointment-No-Shows-Dataset-Analysis>

- Worked on a dataset with more than 100 thousand records.
- Analyzed the data and got some conclusions regarding:
  - The factors that may affect the percentage of attendance.
  - The highest neighbourhoods in the percentages of attending and not attending the appointments.
- Packages like numpy, pandas, matplotlib and seaborn were used.

### Directing Customers Through App Behavior Analysis *Python, pandas, scikit-learn*

<https://github.com/AhmedKhaled8/Directing-Customers-Through-App-Behavior-Analysis>

- Built a classification model that predicts which users won't subscribe to the paid membership.
- Used exploratory visualizations, data cleaning, feature engineering and machine learning model from scikit-learn.

### Analyze A/B Test Results *Python*

<https://github.com/AhmedKhaled8/Analyze-A-B-Test-Results>

- Analyzed an A/B Testing data regarding upgrading a website to decide to do it or not.
- The decision was based on statistics, p-value estimation, and a machine learning model.

### Prosper Loans Data Exploration *Python*

<https://github.com/AhmedKhaled8/Udacity-Visualization-ProsperDataVisualization>

- Performed explanatory data analysis and visualizations on the Prosper loans data set.
- Uni-variate, bi-variate, and multi-variate visualizations were plotted to derive conclusions of the data.
- The visualizations are based on the analysis of 13 features.

### **Clothing Images Classification** *Python, Tensorflow*

[https:](https://github.com/AhmedKhaled8/Tensorflow/blob/main/Fashion_MNIST_Classification.ipynb)

[//github.com/AhmedKhaled8/Tensorflow/blob/main/Fashion\\_MNIST\\_Classification.ipynb](https://github.com/AhmedKhaled8/Tensorflow/blob/main/Fashion_MNIST_Classification.ipynb)

- Used the fashion MNIST dataset from the keras datasets API.
- Used keras package from tensorflow to build a simple neural network to achieve accuracy of 89%.

### **Image Mixer** *Python, PyQt*

<https://github.com/AhmedKhaled8/ImageComponentsMixer>

- Built a GUI that mixes 2 complementary components of 2 images; magnitude and phase, or real or imaginary.
- The loading of the images and generation of a new image was done through openCV library.

### **JPEG Decoder** *Python, PyQt*

<https://github.com/AhmedKhaled8/JPEG-Decoder>

- Built a GUI that show the progressive decoded data of a JPEG image.
- The GUI reads the data of the image with PIL package and process each progressive decoding.

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## **VOLUNTEERING AND EXPERIENCE**

### **JELECOM Egypt**

*Python Instructor*

Cairo

February 2020 - July 2020

- Teaching Python from the basics up to advanced levels in OOP in addition to some sessions in Git, problem solving, Markdown.

### **IEEE-CUSB**

*Technical Vice-Manager*

Cairo University

August 2019 - May 2020

- Managing technical heads, and members in the IEEE student branch at Cairo University. Responsible for the academic role of the organization such as workshops, events.

### **BEAT**

*Technical Director*

Cairo University

September 2018 - May 2019

- Managing the Courses, E-Learning, Analysis and IT sections in BEAT.

### **ESL**

*Python Instructor*

Cairo University

August 2018 - September 2019

- Teaching the basics of Python such as data types, conditional statements, loops, functions and OOP to other students

### **K-Vector Foundation**

*External Public Relations (EPR) member*

Ain-Shams University

August 2017 - May 2018

- Represent K Vector Foundation before external affairs and providing places , speakers and papers for an event or a campaign.

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## **COURSES AND TRAININGS**

### **Machine Learning**

Coursera - Stanford / July 2020

### **Neural Networks and Deep Learning**

Coursera - deeplearning.ai / July 2020

### **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**

Coursera - deeplearning.ai / August 2020

### **Structuring Machine Learning Projects**

Coursera - deeplearning.ai / September 2020

### **Convolutional Neural Networks**

Coursera - deeplearning.ai / September 2020

### **Advanced Data Analysis**

Udacity-FWD Egypt / November 2020