



# Ahmed Ayman

## Jr.Data Scientist

**Objective** Analysis and Solve problems related to Data Science.

## Work Experience

### Jan 2019 - APR 2019

Data scientist in 3adda company.

Design and build solutions for Data analysis, machine learning, and NLP problems.

### APR 2018 - NOW

#### Freelancer Algorithms, Data Science in fiverr, upwork

Data Structure, Algorithms Engineer.

Statistics, data Analysis, and Visualization.

Machine Learning, Deep Learning.

## Education

### Sep 2019 - Now

Studying Master Degree in Computer Science, and Data science

Faculty: Computer and Artificial Intelligence, Cairo university.

### Sep 2014 - Sep 2018

Bachelor Degree in Computer Science

Faculty: Computer and Artificial Intelligence, Helwan university.

GPA : 2.88 Very Good

## Graduation Project

### virtual assistant as chat application

- Description : our virtual assistant listen carefully to messages between you and your friends, understand it, and do assistant duties automatically, detect all appointments, events, and everything related to time within the conversation, then save it as reminder, you can watch this Demo.
- Features : The most strength point in our application, that it depends on recurrent neural network(RNN), and natural language understanding.
- Tools : numpy, pandas, gensim, and tensorflow with android
- Grade : 98

## Coursework

### Data Science subjects

- Data Analyst: [DataCamp **certificated**]
- Machine Learning: [coursera Andrew Ng]
- Deep Learning: [coursera **certificated**]
- Computer Vision: Stanford
- Natural Language Processing NLP: Stanford

### software engineering subjects

- Data Structure: CS 61BUCBerkeley
- Algorithms: MIT OCW, [coursera **certificated**]
- OOP: FCIH
- Design Patterns: FCIH
- SQL: FCIH

### Math subjects

- Calculus: MIT OCW
- Probability: FICH, MIT OCW
- Statistics: MIT OCW
- linear Algebra: edx, MIT OCW

## Basic info

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## Important Links

- Github
- kaggle
- linkedin
- Problem Solving:
  - a2oj
  - codeforces
  - URI
- Chess:
  - lichess
  - chess.org



## Personal projects

- sentiment analysis
  - Description : detect humans sentiment about movie from comment.
  - Features:Deep RNN
  - Tools : numpy, pandas, matplotlib, tensorflow, keras.
- Random Number
  - Description : predict next random number.
  - Features:Deep RNN
  - Tools : numpy, pandas, matplotlib, tensorflow, keras.
- Stock Market
  - Description : predict next day value for stock.
  - Features:Deep RNN
  - Tools : numpy, pandas, matplotlib, tensorflow, keras.
- Object Detection
  - Description : Detect more than object position, in images, or videos.
  - Features:CNN with no Dense, YOLO V2.
  - Tools : numpy, pandas, matplotlib, tensorflow, keras, DarkNet.
- mnist
  - Description : No Description for mnist.
  - Features:CNN with no Dense, learning rate decay, softmax, reach 100% accuracy.
  - Tools : Darknet
- Cat VS Dog
  - Description : classify if the image contains dog, or cat.
  - Features:CNN with no Dense.
  - Tools : numpy, pandas, matplotlib, tensorflow
- Poker Hand
  - Description : classify Poker Hand meaning (one pair, two pairs, ...)
  - Features:DNN, learning rate decay, softmax, reach 100% accuracy
  - Tools : numpy, pandas, matplotlib, tensorflow
- Bicycle users
  - Description : Predict number of people will use bicycles depends on informations about weather.
  - Features:Deep neural network, regression model
  - Tools : numpy, pandas, matplotlib, tensorflow
- Bank churn Prediction
  - Description : classify if the client will stay or leave bank depends on it's current stat.
  - Features:Deep neural network, binary Classification
  - Tools : numpy, pandas, matplotlib, tensorflow
- Human Skin
  - Description : classify from (R,G,B) color it's for human skin or not.
  - Features:Deep neural network, binary Classification
  - Tools : numpy, pandas, matplotlib, tensorflow
- freelancing app
  - company : FCIH (undergraduate)
  - Description : make Desktop app simulate freelancing website
  - Features: 3OOP, Design patterns
  - Tools : java SE, MySQL
  - Role in Team : team leader
- Sudoku Game
  - company : FCIH (undergraduate)
  - Description : sudoku game can build,slove and check Sudoku
  - Features:3OOP, threads for speed
  - Tools : java SE
  - Role in Team : team leader

- GYM website
  - company : FCIH (undergraduate)
  - Description : Dynamic website for GYM can schedule courses and Track results
  - Features:(MVC)
  - Tools : PHP, MySQL
  - Role in Team : model and controller Developer
- Mini Bank
  - company : FCIH (undergraduate)
  - Description : make bank for basic operation (deposit, withdraw and loan)
  - Features: 3OOP
  - Tools : java SE
  - Role in Team : team leader
- Nim game
  - company : FCIH (undergraduate)
  - Description : small game apply AI Tree-Game algorithms
  - Tools : Python
  - Role in Team : team leader

## Skills

### Programming language, Framework

- |                         |                                     |                                   |
|-------------------------|-------------------------------------|-----------------------------------|
| ◦ C/C++ : intermediate  | ◦ Java SE: intermediate             | ◦ Java EE/Spring : Beginner       |
| ◦ Python : professional | ◦ numpy/pandas/sklearn:professional | ◦ tensorflow/keras : professional |
| ◦ R : intermediate      | ◦ matplotlib/seaborn : intermediate | ◦ ggplot2 : intermediate          |
| ◦ SQL : intermediate    | ◦ Excel, PowerBI: intermediate      | ◦ Tableau: Beginner               |

### Essential Skills

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|------------------------|--|
| ◦ Regex : intermediate | ◦ Threads/Memory management : intermediate |
| ◦ REST API : Beginner  | ◦ Sockets : Beginner                       |
| ◦ unit test : Beginner |  |

### Team Work

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| ◦ GIT: intermediate                  | ◦ Kanban: intermediate              |
| ◦ Communication skills: intermediate | ◦ presentation skills: intermediate |

### OS, IDE

- |                        |                          |
|------------------------|--------------------------|
| ◦ linux : professional | ◦ Windows : Intermediate |
|------------------------|--------------------------|

## Languages, Other

### language

- Arabic: mother tongue.
- English: Highly proficient in reading, writing, listening and speaking.

### Hobbies

- |  |                                   |
|--|-----------------------------------|
| ◦ Training: workouts                             | ◦ Chess, puzzles, problem solving |
| ◦ Reading: especially about history, and leaders | ◦ Watching TV series              |

### volunteering history

- Vice head academic in student activity.