



# KHALED EL-SAKA

Junior Data Scientist

## EDUCATION

### Master of Electrical and Computer Engineering – Ottawa University:

May 2022 – Present

**Major:** AI and Data Science.

**Graduation project:** Novel terms and usage detection in Egyptian Arabic.

Sponsored by Microsoft.

#### Other Projects:

- **Static Vs Dynamic model, Cybersecurity attack detection:**

Keywords: (Preprocessing, Analysis, Feature Selection, Modeling, Kafka, Docker, Static Vs Dynamic Model)

- **Healthcare Chat Bot:**

Keywords: (Preprocessing, DialogFlow, NLP, Classification, Clustering, Weighted Association Rules, Evaluation, Error analysis)

- **Bitcoin price prediction using Sentiment Analysis:**

Keywords: (Data collection and preprocessing, Sentiment Analysis, ML, LSTM, Evaluation, Error analysis)

- **Fake task detection:**

Keywords: (CGAN, RF, AdaBoost)

- **Intrusion Detection:**

Keywords: (Dimensionality reduction vs Feature selection, Deep Neural Network, Tuning, Flow Chart, TSNE Visualization)

- **Sentiment Analysis for Arabic tweets:**

Keywords: (Data preprocessing, BERT, araBERT, Fasttext, araXLENT)

### Faculty of Computers and Artificial Intelligence – Cairo University:

2015 – July 2019

**GPA:** 3.15 (very good with honor).

**Major:** Computer Science.

**Minor:** Information System.

**Graduation project:** School bus-tracking system.

Keywords: (Android, ReactJS, Google Maps API, Firebase, NodeJS, Express, Socket I.O., TypeORM, MySQL)

## SKILLS

|                     |                    |                  |
|---------------------|--------------------|------------------|
| Machine Learning    | Deep Learning      | Data Mining      |
| Visualization       | NLP                | Computer Vision  |
| Hadoop              | Big Data           | Python           |
| SQL                 | Apache Spark       | IBM SPSS Modeler |
| Java                | Statistics         | Mathematics      |
| Scikit-Learn        | Tensorflow – Keras | Analysis         |
| Feature Engineering | Problem Solving    | Cloud Analytics  |

## PROFESSIONAL TRAINING

### (Feb 2022 – Present) Digital Egypt Builders Initiative (DEBI):

- (Feb – May) Berlitz (level 1 to 4).
- (Feb – May) Dale Carnegie.
- (Apr – May) IBM Big Data.
- (Mar – Apr) IBM Predictive Analytics Modeler.
- (Feb – Mar) Huawei HCIA-AI v3.

## WORK EXPERIENCE

### (Summer 2018 – Present) Freelancer:

- (Dec – Jan 2022) Online Farming Website:  
Keywords: (Firebase, ReactJS, WordPress, AWS Amplify hosting)
- (Oct – Dec 2021) Online Farming App:  
Keywords: (Firebase, Flutter)
- (Summer 2018 - 2019) Restaurant Cashier:  
Keywords: (Java, JDBC, Hibernate, SQL, MySQL, JasperReports, Trello)

## PROFILE

Master's student at the University of Ottawa majoring in AI and Data Science. My passion is in AI and DS. I like non-trivial and challenging work that develops me and makes me smarter. Interested in making things intelligent and efficient. Innovative, committed, evolutionary, ambitious, decisive, flexible, attention to detail, analytical thinker, smart, and efficient worker.

## PERSONAL INFORMATION

**Date Of Birth:** August 5, 1996

**Military Service:** Complete

**Marital Status:** Single

**Relocation:** Eligible

## LANGUAGE

**Arabic:** Native

**English:** Upper-Intermediate

## CONTACTS



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## ACTIVITIES

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- (May 2020 – June 2021) Military service
- (Oct – 2019) NASA Space Apps Cairo (hackathon)  
Certificate of appreciation.
- (Sep – 2019) IBM Digital - Nation (hackathon)  
Acclaimed with 24 badges from IBM.  
Video for our project Trash-Money.
- (Apr – 2017) Techsolve17- SCCI workshop  
Keywords: (Arduino, Sensors, Soft Skills)

## OTHER COURSES AND CERTIFICATES

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- (Nov – 2021) Python Programmer Bootcamp, 365 Data Science
- (Nov – 2021) Introduction to Data and Data Science
- (Nov – 2021) Getting started with Java, Amegocode
- (Nov – 2021) Getting started with Spring Boot, Amegocode
- (Nov – 2021) Java(Basics) assessment, HakerRank
- (Nov – 2021) Git and Github Essentials, Amegocode
- (Oct – 2021) Introduction to Linear Algebra, 365 Data Science.
- (Oct – 2021) Statistics, 365 Data Science
- (Oct – 2021) Introduction to Jupyter, 365 Data Science