

## WORK EXPERIENCE

**(24 Jan 2023 - Present) Machine learning Engineer – Ogoul:**

- Improve Translation(en-ar from 11 to 63 Bleu)
- Improve violence image classification(94 to 98)
- Improve violence video classification(0.48 to 0.94 safe Recall, 0.82 to 0.98 violent Recall)
- Improve inference speed by 4x on CPU and 5x on GPU, Also optimized memory by 8x using CTranslate2.

**(Aug – Jan 2023) Microsoft Internship:**

- New Innovative general and practical solution for "Automating novel terms and usage detection in Egyptian Arabic.". Mainly, to enhance translation

**(may 2018 – Jan 2023) Freelancer:**

- **(Dec – Jan 2022) Online Farming Website** [\[link\]](#):  
Keywords: (Firebase, ReactJS, WordPress, AWS Amplify hosting)
- **(Oct – Dec 2021) Online Farming App** [\[link\]](#):  
Keywords: (Firebase, Flutter)
- **(may 2018 - 2019) Restaurant Cashier** [\[link\]](#):  
Keywords: (Java, JDBC, Hibernate, SQL, MySql, JasperReports, Trello)

## ACTIVITIES

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

## SOFT SKILLS

- **(Feb – May 2023) Dale Carnegie**  
Communication, Leadership, Becoming a trusted advisor, Presentation, Business Acumen, Strategic Planning, Team Building.

## CONTACTS

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Sa2a [\[link\]](#)  
[kaggle](#) khaledelsaka [\[link\]](#)

# KHALED EL-SAKA

## EDUCATION

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

May 2022 – Jan 2023

**Major:** AI and Data Science.

### Projects:

- **Chinese sign language Image Classification [\[link\]](#):**  
Keywords: (Image processing, Feature Engineering, ResNet, Zernike Moments, Data Augmentation)
- **Static Vs Dynamic model, Cybersecurity attack detection [\[link\]](#):**  
Keywords: (Preprocessing, Analysis, Feature Selection, Modeling, Kafka, Docker, Static Vs Dynamic Model)
- **Healthcare Chat Bot [\[link\]](#):**  
Keywords: (Preprocessing, DialogFlow, NLP, Classification, Clustering, Weighted Association Rules, Evaluation, Error analysis)
- **Bitcoin price prediction using Sentiment Analysis [\[link\]](#):**  
Keywords: (Data collection and preprocessing, Sentiment Analysis, MI, LSTM, Evaluation, Error analysis)
- **Fake task detection [\[link\]](#):**  
Keywords: (CGAN, RF, AdaBoost)
- **Intrusion Detection [\[link\]](#):**  
Keywords: (Dimensionality reduction vs Feature selection, Deep Neural Network, Tuning, Flow Chart, TSNE Visualization)
- **Sentiment Analysis for Arabic tweets [\[link\]](#):**  
Keywords: (Data preprocessing, BERT, araBERT, Fasttext, araXLENT)

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

2015 – July 2019

**GPA:** very good with honor.

**Major:** Computer Science.

**Minor:** Information System.

**Graduation project:** School bus-tracking system [[link](#)].

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

## PROFESSIONAL TRAINING

**(Feb 2022–Jan 2023) Digital Egypt Builders Initiative (DEBI):**

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

## OTHER COURSES AND CERTIFICATES

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