WORK EXPERIENCE

(24 Jan 2023 - Present) Machine learning Engineer at 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.
- Create ChatBot that search the web using Langchain, langGraph, and Llama3.

(Aug – Jan 2023) Microsoft Internship:

 Automating novel terms and usage detection in Egyptian Arabic [link]:

Keywords: (Scratch BERT, MARBERT, problem-solving, Autocorrect, Flask, Visualization)

(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)

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 [<u>link</u>].
- (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].

CONTACTS



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KHALED EL-SAKA

EDUCATION

Master of Electrical and Computer Engineering – Ottawa University:

May 2022 - Jan 2023

Major: Al and Data Science.

Projects:

Chinese sign language Image Classification [link]:

Keywords: (Image processing, Feature Engineering, ResNet, Zernike Moments, Data Augmentation)

Static Vs Dynamic, 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, Ml, LSTM, Evaluation, Error analysis)

• Fake task detection [link]:

Keywords: (CGAN, RF, AdaBoost)

• Intrusion Detection [link]:

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

• 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) 240 hours of Berlitz English conversation course [link].
- (Feb May) 200 of Dale Carnegie training certificate [link].
- (Apr May) IBM Big Data [link].
- (Mar Apr) IBM Predictive Analytics Modeler [link].
- (Feb Mar) Huawei HCIA-Al v3 [link].

SOFT SKILLS

• (Feb - May 2023) Dale Carnegie

Communication, Leadership, Becoming a trusted advisor, Presentation, Business Acumen, Strategic Planning, Team Building.