Mohamed Omar

in https://www.linkedin.com/in/moomarr/

Education

MSc in Machine learning and data science, School of computing, Queen's university 01/2022 - 05/2023 Kingston, Canada BSc in Computer science, 09/2017 - 07/2021 Faculty of information technology, Misr university for science and technology 6th of October city, Egypt

Professional Experience

Teaching & Research Assistant,

Faculty of information technology, Misr university for science and technology

10/2022 – present 6th of October city, Egypt

- Teaching Assistant in the Artificial Intelligence Department for the following courses: Introduction to Artificial Intelligence, Machine Learning, Natural Language Processing, Data Science, Data Analysis, and Al Applications
- Research Assistant:
 - Supervising the graduation projects of students from all departments and scientific research as well.
 - Analysis of the college's data.
 - Help and guidance for graduate students.

Al and data science trainee, DEBI

• I studied extensively in machine learning engineering, data mining, and data science and worked on many beneficial projects.

 Attended training courses and got hands-on experience in processes, techniques, and industry.

11/2021 - 11/2022

Cairo, Egypt

Certificates

- HCIA AI -Huawei, 2021.
- Introduction to Data Science in Python - Datacamp
- HCIA Cloud computing, Huawei, 2022.
- · Supervised Learning with scikitlearn - Datacamp
- Completion of "seeds for the future 2022" Huawei program.
- · Introduction to SQL Server-Datacamp

Projects

Network complain prediction, MSc thesis

The main idea of this is to create an automated ML system that helps telecom companies anticipate customer satisfaction based on key performance indicators and reduces pressure on customer service.

The main stages of the project are:

- Using Power BI, useful insights are shown to analyze the data
- Using Matplotlib, Ploty, and missingno to visualize the data using python
- · Using Pandas to prepare and preprocess the data
- Using Scikit-Learn to build ML-supervised learning algorithms

Hear Me Out, BSc graduation project

The main idea of this project is to translate sign language into text. so, normal people can understand it, using Flutter technology and deep learning, we have created a chat app, many users can access the app and connect with special people who can speak with their sign language in front of the camera which translate their signs to text so people can understand them easily

Fully integrated assistive application to help deaf and dumb people make their lives easier.

- Transformed TF model into TensorFlow light to boost the processing speed
- Tech Stack: Deep Learning, TensorFlow, Flutter, Firebase

Covid19 recovery detection

If someone has some symptoms, the model will predict the outcome (death or recovery). Logistic Regression, KNN, Decision Tree, SVM, and Naive Bayes models.

Hospital patients' length of stay prediction

Based on the data set available from the US Department of Health, artificial intelligence models and machine learning are used to predict the extent of a patient's stay in the hospital using linear regression and other algorithms.

Wish.com product rating prediction

Data science life cycle for tuning | Inspect and clean data | Try different ML models | Some feature engineering | Scikit-Learn| Pandas

Fake Reddit posts prediction

Different text preprocessing techniques | Tunable pipeline including the vectorizer | character\word-level vectorizer. | XGBoost| stemming | tf-idf

Speed Dating Match Prediction

Grid, Random and Bayesian search | Different preprocessing approaches using Data pipeline | cross-validation

Hotel management system

The hotel database management system has been designed to simplify office tasks at the front desk, improve management functions, and enhance customer experience and guest bookings. A hotel can improve efficiency with the software and effectively manage operations such as check-in, check-out, and booking confirmation.

Tech Stack: ERD|SQL

Skills

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|---------|------|-----------|
| Program | ming | languages |

Python | C++ | Java (basics) | SQL

Data Science Skills

Data Cleaning Data Analysis Data Visualization

CS Concepts

Problem Solving Data Structures Algorithms

Mathematics and statistics

Linear Algebra | Calculus | Probability | Statistics.

Libraries/Frameworks

Pandas | Numpy | Matplotlib | Plotly | Seaborn.

Machine Learning

Scikit-learn| Supervised| Unsupervised|Keras and TensorFlow

Database

SQL

Soft skills

Presenter | Problem solver and creative thinker | Self motivated | Fast learner | Time Management.

Other

Excel | Power BI | Powerpoint | Presentation | Scientific Research

Languages

• Arabic (Native)

• Engilsh