

MAGDA EHAB

Cairo, Egypt

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Education

University of Ottawa

Feb. 2023 – Jan. 2024

MEng in Electrical and Computer Engineering, Specialized in AI and Data Science

Misr University for Science and Technology

Sep. 2018 – Jun. 2022

Bachelor of Science in Computer Science

GPA: 3.95

Experience

Huawei

Oct. 2022 – Feb. 2023

Software Engineer (Full-time)

Giza, Egypt

- Developed applications and services on GDE platform.

Technologies: SQL, JavaScript, GDE, OWS

First Golf Solutions

Aug. 2022 – Sep. 2022

Automation Engineer (Internship)

Remote

- Trained on automation tools

Technologies: Automation Anywhere

Projects

Machine Learning

- Customer Churn Prediction (Graduation Project): Develop a machine learning model to forecast customer churn for WUZZUF company. The model currently undergoes development and testing for deployment.
- Evaluation of Imputation Methods: Investigated various imputation techniques, from traditional statistical methods to advanced machine learning approaches, to handle missing values and assessed their impact on model accuracy and data integrity.

NLP

- Books Classification: Used SVM, Naïve Bayes, k-NN, and Ensemble models to classify text from Gutenberg corpus books based on genre.
- Books Clustering: Evaluated model accuracy by clustering text segments from different books of the same genre to decide which book the text belongs to.
- Course Recommendation System: Integrated a chatbot with a recommendation system using DialogFlow to suggest tailored courses through interactive conversations based on specific learner requirements.

Computer Vision

- Texture Classification: Classified diverse textures in images using learning-free methods (pyramid histogram) and learning-based methods (neural networks) with the Kylberg texture dataset.
- Plants Classification: Employed transfer learning by fine-tuning a pre-trained VGG-16 model to classify leaves from various plant species.

Technical Skills

Machine Learning & Deep Learning: Tensorflow, NumPy, Pandas, Scikit-Learn, NLTK, Gensim, Scikit-image, OpenCV

Programming Languages: Python, SQL, Java, C++

Visualization: Matplotlib, Seaborn

Certifications

[AWS Certified Machine Learning – Specialty](#) | [AWS Certified Cloud Practitioner](#) | [Neural Networks and Deep Learning - Coursera](#) | [Supervised Machine Learning: Regression and Classification - Coursera](#) | [ECPC 2019 Qualifications Round 17th Place](#)

Publications

Multiple Moving Objects Using Deep Learning for Trajectory Extraction and Clustering

[Link](#)

IEEE Xplore – August 2023

Volunteering

MUST Students' Union

Scientific Committee Vice President

Assisted students with their academic courses and coordinated events and workshops.

IEEE MUST SB

Technical Vice-Lead — Problem Solving Instructor

Conducted sessions to explain competitive programming topics and organized online workshops.

Languages

English: Professional working proficiency — **Arabic:** Native