

Sara Gamil Mohamed

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Summary

Seeking a position as an AI Engineer where I can leverage my expertise in deep learning and computer vision to develop innovative solutions for autonomous systems, while contributing to cutting-edge research in real-world applications.

Education

- (October – June 2025) 9-Month Diploma (**ITI**) Information Technology Institute ,(MCIT) Ministry Of Communications And Information Technology , Artificial Intelligence and Machine Learning Track ,Mansoura Branch
 - (2020-2024) BS Artificial intelligence | Kafr El-Sheikh University| Major: AI & Machine Learning| GPA : 3.77
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Internships

- (July - September 2024) BMI Data Scientist Specialist intern ,Digital Egypt Pioneers Initiative (DPEI) @ AMIT
 - (July - September 2023) Power BI summer Training in (ITI) Information Technology Institute ,(MCIT) Ministry Of Communications And Information Technology
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Technical Skills

- Programming & Problem Solving: Python, Problem Solving, SQL, C, C++
 - Mathematics & Statistics: linear Algebra, Numerical Optimization, Statistics
 - Data Analysis & Visualization: Data Processing, Data Visualization, Power BI , Matplotlib, Seaborn, Pandas, Numpy,Plotly,Dash
 - Machine Learning & Deep Learning: Machine Learning, Deep Learning, Keras, TensorFlow, scikit-learn, CNN, RNN, LSTM,LLMS,GenAI,RAG
 - Tools and Technology: Git , Docker
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Courses

- Supervised Machine Learning: Regression and Classification (Coursera)
 - Neural Networks and Deep Learning(Coursera)
 - Linear Algebra for Machine Learning and Data Science (Coursera)
 - Data Analysis with Python (Coursera)
 - Object Oriented Programming(MaharaTech)
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Projects

Arabic-Part-of-speech

[GitHub Link](#)

- **Tools:** Hugging Face Transformers, DataCollatorForTokenClassification, seqeval, TensorFlow
Fine-tuned an Arabic BERT model for token-level part-of-speech tagging using the Universal Dependencies treebank. Implemented data parsing, subword alignment, and dynamic batching to achieve high accuracy and F1 on held-out test data. Deployed the final model to the Hugging Face Hub for easy inference via the pipeline API

Hate of Speech

[GitHub Link](#)

- **Tools:**Python, TensorFlow/Keras, NLTK, NumPy, Pandas, Streamlit
Develop Streamlit web application for real-time hate speech detection using RNN, LSTM, and Bidirectional LSTM models to classify user input and reduce online toxicity.Implemented comprehensive text preprocessing (tokenization, stop-word removal, padding) and an interactive UI with confidence-bar visualizations and clear “Hate Speech” vs. “Not Hate Speech” labels.

Obesity Risk Classification

[GitHub Link](#)

- **Tools:** Python, Scikit-learn, XGBoost, Random Forest, Logistic Regression
Built a multi-class classification model to predict obesity levels based on health and lifestyle features.

Preprocessed imbalanced data, performed feature scaling and model tuning. Achieved high accuracy with F1-score optimization using Random Forest and XGBoost.

Text Clustering on 20 Newsgroups

[\(GitHub Link\)](#)

- **Tools:** Python, Scikit-learn, TF-IDF, KMeans, PCA, t-SNE
Performed unsupervised clustering on the 20 Newsgroups dataset. Applied TF-IDF for feature extraction, dimensionality reduction with PCA and t-SNE, and multiple clustering techniques (KMeans, Agglomerative, DBSCAN). Evaluated clusters using Silhouette Score and Purity Score.

SkinScanTech Application (Graduation Project):

[\(GitHub Link\)](#)

- **Tools:** Python, TensorFlow, Keras, CNN, Transfer Learning, EfficientNetB0
Developed a mobile application that detects and classifies skin conditions, burns, and skin cancers using AI. Integrated a chatbot for user assistance and first-aid guidance
- **My Role:** Focused on dermatological condition detection by preparing and cleaning image datasets (97%), applying preprocessing techniques (88% enhancement), and training pre-trained CNN models, achieving 99% accuracy in classification

Power BI for Sales Dashboard:

[\(GitHub Link\)](#)

- **Tools:** Power BI ,Power Query
Built an interactive dashboard to analyze sales trends, customer segments, and profits using advanced visuals and 90% data transformation.

Certificates

AI & Machine Learning:

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| • AI & Data Science- IBM Data Scientist | DEPI |
| • Neural Networks and Deep Learning | Coursera |
| • Supervised Machine Learning: Regression and Classification | Coursera |
| • Linear Algebra for Machine Learning and Data | Coursera |

Data Analysis:

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| • Data analysis | Udacity |
| • Business Analysis | ITI |
| • Data Analysis with Python | IBM |
| • Database Fundamentals | MaharaTech |

Activities & Competition

- (Nov 2022 – Jan 2023) Data Structure and Algorithms member in Google Developer Student Club(GDSC) Activity, Kafr Elsheikh branch .
- (Oct 2021 - Jan 2022) Machine Learning member in Institute of Electrical and Electronics Engineers (IEEE) Activity , Kafr Elsheikh branch
- (26 May - June 2022) International Collegiate Programming Contest (ICPC) Competition

Personal Skills

Communication Skills, Negotiation, Persuasion, Teamwork ,Positive Attitude, Innovation

Languages

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| • Arabic (Native) | English(C1) |
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