

Islam Sherif

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Professional Summary

AI Engineer and Data Scientist specializing in machine learning and deep learning solutions. Proficient in Python, C++, SQL, and MATLAB with hands-on experience building scalable models using TensorFlow, PyTorch, and transformer architectures (BERT, GPT). Expertise in end-to-end AI development from data preprocessing and feature engineering to model deployment using Docker and Git. Skilled in computer vision (OpenCV) and NLP (NLTK, SpaCy) with a proven track record of delivering intelligent systems that enhance decision-making and automate processes.

Education

Bachelor of Science in Computer Science
Modern Academy, Faculty of Computer Science

2025

Professional Experience

Prompt Engineer (Part-Time) July 2024 – Present

Outlier

- Designed high-quality prompts to train and evaluate large language models, focusing on instruction following, reasoning, and code generation
- Created complex multi-step tasks and adversarial examples to identify model weaknesses and improve robustness
- Collaborated with research and data teams to ensure prompt quality, diversity, and alignment with AI training objectives

IBM Data Scientist (Full-Time) April 2024 – October 2024

Digital Egypt Pioneers Initiative (DEPI)

- Completed comprehensive training in Data Analysis, Machine Learning, Data Visualization, and Big Data Technologies
- Applied skills in real-world projects, enhancing technical proficiency and practical data science applications
- Collaborated with teams to extract meaningful insights from complex datasets

Publications & Research

Brain Tumor Segmentation and Localization with 3D Construction July 2025

9th International Undergraduate Research Conference (IUGRC-9), Military Technical College, Cairo

- Developed end-to-end AI-powered web platform combining CycleGAN for MRI synthesis, CNN + nnU-Net V2 for tumor segmentation, and Napari for 3D visualization
- Automated DICOM file handling for streamlined clinical use, overcoming challenges with inconsistent metadata and segmentation accuracy

Key Projects

NeuroVista – Deep Learning October 2024 – June 2025

- Led team as Project Leader, managing collaboration, task allocation, and model development
- Developed CNN-based brain tumor detection model trained to identify tumors from any anatomical angle
- Created CycleGAN + ResNet50 model to generate T1c field from T1 field in MRI scans

Sentiment Analysis API – Natural Language Processing September 2024 – December 2024

- Built RESTful API for sentiment analysis using pre-trained transformer models (Hugging Face)
- Deployed API on cloud platform for seamless integration

Diabetes Detection – Machine Learning March 2023 – June 2023

- Developed Random Forest model to predict diabetes risk from medical data

Technical Skills

Machine Learning & Deep Learning: Supervised/Unsupervised Learning, CNN, RNN, Transformers, Random Forest, Model Training & Fine-tuning

Natural Language Processing: BERT, GPT-2, QWEN, Phi, Ollama, NLTK, SpaCy, Text Classification, Sentiment Analysis

Programming & Tools: Python (PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, NumPy), C++, MATLAB, SQL (MySQL, SQL Server), Docker, Git

Computer Vision: OpenCV, Image Processing, Medical Imaging (DICOM)

Data Engineering: ETL/ELT Pipelines, Data Preprocessing, Feature Engineering

Visualization: Power BI, Tableau, Plotly, Excel

Certifications

IBM Data Science

October 2024

Machine Learning, NTI

July 2024

Core Competencies

Leadership | Communication | Teamwork & Collaboration | Problem Solving | Presentation | Emotional Intelligence