

Hajar Elsayed Elbehairy

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Summary


AI/ML Engineer with a strong background in deep learning, computer vision, and data analysis. Currently completing the ITI 9-month program, focusing on Artificial Intelligence and machine learning applications. Passionate about developing intelligent systems that solve real-world problems.

Education

- 9-Month Diploma (ITI) Information Technology Institute ,(MCIT) Ministry Of Communications And Information Technology , AI track ,Mansoura Branch Oct 2024– June 2025
- Bsc,Artificial Intelligence,KafrElshiekh University Oct 2020– June 2024


Internships

Generative AI Intern | Digital Egypt Pioneers Initiative (DEPI)

 July 2024 – Oct 2024

- Built and deployed AI and Generative AI models using MLOps tools like MLflow and Hugging Face, including developing GANs for content generation and NLP models with attention mechanisms.
- Designed and optimized prompt engineering strategies for large language models (LLMs) to enhance text generation and processing.

Artificial Intelligence Training | Samsung Innovation Campus

 August 2023 – October 2023

- Studied AI fundamentals, machine learning concepts, probability, statistics, and essential mathematics for data science with hands-on Python exercises.
- Applied data processing techniques using NumPy and Pandas, and developed supervised machine learning models for both structured and unstructured data.

Publications & Research

- "Human Gait Recognition for Security Systems" - International Technology and Artificial Intelligence Forum (ITAF), Canadian International College (Oct 2024)
 - Developed a novel security system utilizing computer vision and AI to analyze human gait patterns for non-intrusive identification
 - Research presented at ITAF 2024 International Conference "Foresights of Technology and Management within Emerging Developments"

Technical Skills

- Programming Languages: Python, C, C++, HTML, CSS
- Machine Learning & AI: Supervised/Unsupervised Machine Learning, Bayesian ML, Reinforcement Learning, Deep Learning, Generative AI, Large Language Models, Time Series Analysis, Recommender Systems, NLP
- Deep Learning Frameworks: TensorFlow, Keras, CNNs, RNNs, LSTM, GRU
- Computer Vision: OpenCV, YOLO, Advanced Computer Vision, Image Processing
- Data Manipulation & Analysis: Pandas, NumPy, Data Cleaning, Data Exploration, Data Preparation
- Data Visualization: Power BI, Matplotlib, Seaborn, Plotly
- Big Data & Cloud Technologies: AWS, Spark, PySpark, Cloud Infrastructure for Big Data
- Statistical Methods & Optimization: Linear Algebra for ML, Probability & Statistics for ML, Numerical Optimization
- Software Development: OOP, Agile Methodologies, SQL/NoSQL Databases
- Tools & Libraries: TensorFlow, scikit-learn, NLTK, Selenium, Plotly, Matplotlib, Seaborn, Pandas, NumPy, OpenCV
- Version Control & Collaboration: Git, GitHub, VS Code

Projects

- [Sentiment-Based Music & Poem Generator](#)
Developed a system that generates music and poetry based on the sentiment of input text using NLP and content generation techniques.
- [Hate Speech Classification](#)
Designed a machine learning pipeline using NLP techniques to detect and classify hate speech in text data.
- [Obesity Risk Prediction](#)
Created a multi-class classification model to predict obesity levels based on user health and lifestyle attributes.
- [Email Generator – DEPI Graduation Project](#)
Developed a personalized email generation tool using NLP methods to automate content planning and email drafting.
- [Clustering People](#)
Performed unsupervised learning to group individuals based on demographic and behavioral patterns using clustering algorithms.
- [CWC2023 – Cricket World Cup Analysis](#)
Conducted statistical analysis and visualizations on player and team performance in the 2023 Cricket World Cup using Python.
- [Sign Language Classification](#)
Trained a convolutional neural network (CNN) to classify American Sign Language (ASL) alphabets from hand gesture images.
- [House Price Prediction](#)
Applied regression models to forecast housing prices based on property features from the Kaggle housing dataset.
- [Email Spam Detection](#)
Built and evaluated machine learning and deep learning models to classify emails as spam or not spam.
- **Graduation Project**
A dual-system AI project focused on enhancing security through biometric gait analysis and real-time vehicle identification.
 - Gait Recognition Security System
Implemented DeepLabV3 for silhouette extraction and Gait Energy Image (GEI) analysis to identify individuals based on their walking patterns.
 - Arabic License Plate Recognition System(*My Role*)
Built a real-time detection and recognition system using YOLOv8 for vehicle localization and a custom character detection pipeline for recognizing Arabic license plates.

Certificates, Achievements & Competition

Certificates, Achievements & Competitions

- Kaggle Notebook Expert – 8 Bronze Medals
- ECPC Problem Solving Competition
- Huawei HCIA-AI
- Atta Digital Hackathon

Courses

- Communicating Data Insights – DataCamp
- Introduction to Relational Databases in SQL – DataCamp
- Introduction to Object-Oriented Programming in Python – DataCamp
- Introduction to Git – DataCamp

Volunteer Experience

- IEEE Volunteer – Computer Vision Community
2022
- IEEE Volunteer – Web Development Community
2023

Personal skills

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| • Team Leadership & Collaboration | • Time Management |
| • Project Management | • Adaptability & Quick Learning |
| • Problem-Solving & Analytical Thinking (proficient) | • Cross-Cultural Communication |
| • Communication & Presentation | • Technical Writing |
| • Research & Documentation | • Decision Making |
| • Self-Motivation | • Presentation Skills |
| • Teaching Skills | • |