

Mazin Yaser Hamdy

Data Science & ML Engineer

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Summary

AI & Data Science Engineer with a passion for transforming data into intelligent solutions. Experienced in building machine learning models, analyzing complex datasets, and delivering data-driven insights to support smarter decision-making.

Experience

Generative AI Training – Digital Egyptian Pioneers Institute (DEPI) – Present

July – 2026

intensive Generative AI training at DEPI gaining practical experience in :

- LLMs - prompt engineering - model fine-tuning - building AI-driven applications .

Working on hands-on projects involving text, image, and code generation, improving my skills in applying generative models to real-world solutions.

Deep Learning Training - Epsilon AI Academy Egypt

Sep – 2025

I worked on real-world datasets and built end-to-end deep learning pipelines using the following :

- Python - TensorFlow – Keras .

This hands-on exposure gave me a deeper understanding of :

- How deep learning models are designed
- How they are trained and optimized
- How to evaluate and improve performance
- How to deploy models for real applications

Especially in domains like Computer Vision and Predictive Modeling.

AI Training 90 hours – Information Technology Institute (ITI)

July – 2025

The program covered a wide range of essential topics :

- AI & Machine Learning fundamentals
- Python for data analysis and modeling
- Data preprocessing, EDA, and visualization
- Neural networks and deep learning basics
- End-to-end hands-on AI project

Data Science Training – Epsilon AI Academy Egypt

July – 2024

- Built and optimized ML models for prediction and classification.
- Conducted data preprocessing, feature engineering, and EDA.
- Implemented AI solutions using Python and scikit-learn.
- Communicated insights via reports and visualizations.
- Used Git and industry best practices with real-world datasets.

AI Training – Zewail's City & Impact Platform **50-hour** training

Nov – 2023

- Hands-on training in Machine Learning and AI using Python.
 - Built and evaluated ML models on real datasets.
 - Performed data preprocessing, feature engineering, and EDA
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Education

Bachelor's Degree of Science – in Computer Science & Artificial Internet Egyptian E-Learning University

2022 – 2026

Technical Skills

- **Programming Languages :** Python, Java, SQL, C++, JavaScript .
 - **Libraries & Frameworks :** Pandas, NumPy, Seaborn, Matplotlib, Plotly, Streamlit, Scikit-Learn, TensorFlow, PyTorch .
 - **Tools & Environments :** VS Code, Anaconda, Google Colab, Git, GitHub, Kaggle, PyCharm, IntelliJ .
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Projects

Melbourne Houses Price Prediction

- This project is a complete end-to-end ML solution, starting from raw data analysis all the way to an interactive web app built with Streamlit. The main goal was to predict house prices in Melbourne using real estate data from Kaggle.

American Sign Language (ASL) Alphabet Recognition!

- Using Convolution Neural Network (CNN) I developed a Deep Learning model to classify 36 different classes of American Sign Language gestures, covering 26 letters (A-Z) and 10 digits (0-9) .

Advanced Snake Game with AI Playing Mode

- Implemented a Greedy Best-First Search algorithm to allow the snake to automatically navigate toward the fruit, Designed a dynamic difficulty system (Easy / Normal / Hard) ,Added special golden fruits with bonus rewards, Built a clean UI with start menu, game-over screen, restart & exit buttons, Integrated high-score saving system, Added theme switching and smooth animations

Fraud Detection in Vehicle Insurance Claims using Machine Learning & Streamlit

- This project is a complete end-to-end ML solution, starting from raw data analysis all the way to an interactive web app built with Streamlit. The main goal was to predict Fraud Detection in Vehicle Insurance Claims .

Plant Disease Detection

- Developed a deep learning system for plant disease recognition using Transfer Learning with EfficientNetB4, achieving high accuracy in classifying various plant leaf diseases. This project showcases expertise in image processing, deep learning, and applying pre-trained models for real-world image classification problems.
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Languages

- **English – B2 .**
- **Arabic – Native**