

Mariam Badr

AI Engineer

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Profile

AI & Machine Learning enthusiast with strong skills in computer vision, deep learning, and software development. Experienced in developing innovative, data driven solutions and passionate about applying AI to solve real world problems while continuously expanding technical expertise.

Education

2023 – 2027 **Bachelor's degree in Computers and Artificial Intelligence**
Cairo University

Professional Experience

Present	Computer Vision intern - AI summer internship program <i>National Telecommunication Institute (NTI)</i> Applied deep learning techniques to image processing and object recognition tasks. Gained practical experience in automating visual data analysis using computer vision algorithms.
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Projects

Virtual Hand Keyboard

Developed a real-time, gesture-controlled virtual keyboard using **Python**, **OpenCV**, and **Pygame**, enabling touchless text input with advanced editing features

Book's genre

Discover hidden micro-genres in books using unsupervised machine learning. This project applies **KMeans clustering** to book descriptions, using **NLP preprocessing** and **TF-IDF vectorization** to group books with similar themes.

German Traffic Sign Classification

This project implements a Convolutional Neural Network (**CNN**) to classify images of German traffic signs . The model can help interpret traffic signs for autonomous driving systems.

Certificates

AI Fundamentals - DataCamp

Introduced to key AI sub-domains, Generative AI concepts, basic prompt design, and essential ethical considerations.

Skills

- mySql
- Git & Github
- Problem Solving

Languages

- Arabic
- English