Yara Elshehawi

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Profile

Digital Media Engineering graduate from the German University in Cairo, with a strong focus on AI, computer vision, and deep learning. I have hands-on experience in machine learning through academic projects and internships. I'm currently looking for opportunities in AI/ML where I can contribute and continue growing and I'm available to start immediately.

EDUCATION

IGCSE Graduate   2020

MET Student in German University in Cairo   2020 – 2025

EXPERIENCE

Junior Teaching Assistant, *GUC*   10/2023 – 12/2023
Database I
- Contributed in teaching database concepts to undergraduates

Intern, *GUC*   07/2023 – 08/2023
- Contributed to a research lab project focused on developing algorithms for weapons detection and age/gender identification.

NOTABLE PROJECTS

Bachelor Project — Adapting a Human-Agent Toolkit to a Physical Robot Head ⬀
- Used MediaPipe's Blendshape model with Python and NVIDIA Omniverse to track and extract facial expressions in real time
- Mapped blendshape coefficients from webcam input to robotic actuators to achieve synchronized, human-like lip sync and emotional expressions

Medical Image Segmentation using Deep Learning ⬀
- Trained a U-Net model on brain MRI scans to detect tumor regions
- Used OpenCV for preprocessing; evaluated using Dice Coefficient and IoU

Motion Analysis using MEI & MHI ⬀
- Built motion history/energy representations from video sequences to track human activity
- Useful for recognizing motion direction and intensity in real time

Dynamic Video Summarization ⬀
- Tracked and overlaid moving objects on reference frames using OpenCV and Euclidean distance tracking
- Created condensed visual summaries of traffic footage with timestamps

Foreground Detection and Image Binarization using Classical CV ⬀
- Separated moving foreground from video using a running average background model
- Binarized galaxy images via unsupervised EM-based pixel classification.

LANGUAGES

Arabic   **English**
(Native)   (Fluent)

TECHNICAL SKILLS

Languages
Python, Java, C++(academic), MERN, SQL,
JavaScript

Libraries/Tools
TensorFlow, Docker(basic), OpenCV, Mediapipe,
Hugging Face Agents

EXTRACURRICULARS

MUN (Model United Nations) — Served as a delegate and a board member twice, enhancing my leadership and public speaking skills.

IEEE — Maintained team morale and organization while attending technical sessions to broaden my knowledge of engineering and AI.

Student Curriculum Committee, GUC — Improved student experience by providing feedback on courses and collaborating with faculty.

Awards

DAAD Extra Scholarship Award, DAAD
Awarded to students with outstanding academic performance.

Courses

Fundamentals of Agents, *Hugging Face* 2025
Learned how AI agents use LLMs to reason and act autonomously; built my first
functional AI agent with Hugging Face tools.