Mahmoud Mohamed Mahmoud

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https://github.com/DoubleM01 | https://doublem01.github.io/DoubleM/

Professional Summary:

AI & Computer Vision Engineer with 3+ years' experience with specialized fields such as medical diagnostics, sports tech, 3D virtual fitting and LLM. I am skilled in Python, deep learning (TensorFlow, PyTorch), REST APIs, and edge/cloud deployment. Strong in full ML pipeline and delivering scalable AI solutions.

Education

- **Bachelor of Engineering**. Computer Engineering (GPA: 4.0) - London South Bank University· 2020 – 2024
- **Bachelor of Engineering.** Computer Engineering. British University in Egypt· 2019 – 2024

Professional Experience

- **AI Engineer & Freelance Developer: Self-Employed (United Arab Emirate - Egypt) · Jul 2022 – Present**
  - Delivered 7+ computer vision and image processing projects across medical, sports, and retail domains.
  - Built 5+ LLM and chatbot applications, integrating advanced NLP pipelines and APIs.
  - Developed 5+ software applications with RESTful APIs using Flask and FastAPI.
  - Deployed 3+ AI solutions on Microsoft Azure, optimizing scalability and performance.
  - Executed 5+ web scraping projects for structured data extraction and automation.
- **Programming Lecturer & Instructor IEEE BUE · October 2024 – November 2024:**
  - Delivered lectures on dynamic programming and algorithm design to 50+ students.
- **Software Engineer at Khater Sports, Egypt · June 2022 – February 2024**
  - Designed middleware and mobile endpoints to integrate physical scoreboards with apps.
  - Optimized real-time data streaming and latency for live sports displays.
  - Worked as full stack with Xamarin and C#.
- **AI Research Intern at Nanyang Polytechnic, Singapore · Jul 2023 – August 2023**
  - Created a YOLO-based gait disorders detection model (84% accuracy) in TensorFlow.
  - Performed data augmentation, annotation and hyper-parameter tuning for images and human pose key points with real time detection and GPU optimization using CUDA
- **Start-Up founder. MYM Smart Home Solutions · 2020 – 2022**
  - Developed IoT-driven home automation systems; collaborated on hardware/software integration.
  - Implemented many ecosystems solutions for better user experience.
  - Developed MYM1 voice assistant which supported Arabic language in homes.

Skills:

Technical:

-Python -C# -TensorFlow -PyTorch -Generative AI -Azure -FastAPI -LangChain -NVIDIA Jetson -SQL

Language:

- Arabic: Fluent   English: Fluent   German: Beginner

Personal:

- Excellent presentation skills
- Good Leadership skills
- Good Time Management

Certificates & Awards

- Awarded with the top 11 team in Hackmaster Agentic AI hackathon at Dubai AI week in 2025.
- Finished Generative AI Explained Course from NVIDIA in 2025.
- Awarded with the top 500 global in IEEEXtreme 16.0 in 2023.
- Finished TensorFlow Deep Learning Course from IBM in 2023.
- Finished Computer Vision & Image Processing Course from IBM in 2023.
- Finished AI Training Program from Zewail City in 2023.

Projects

- Spine Deformity Detection in 2023–2025: Three-phase diagnostic pipeline using ViT, OpenCV, TensorFlow. https://github.com/DoubleM01/Detection-of-spinedeformitiesusing-deep-learning-models-

- Virtual Fitting Room in 2023–2024: Real-time try-on with SMPL-X, MediaPipe, YOLO, Open3D, Blender.
- Workout Chatbot Assistant (2025): Scheduler and analytics via Hugging Face/OpenAI APIs https://github.com/DoubleM01/Workout-chatbot
- ZenAI: wellbeing agentic AI GPS and fitness data tracking. Leading to automated decision making with reasoning features. Deployed with FastAPI with HTML pages and JavaScript
- MIRA avatar: a system for animating static photos with TTS and 8 types of emotional facial expressions. https://github.com/DoubleM01/MIRA-Virtual-Avatar