Mahmoud Mohamed Mahmoud Ali Mahmoud
AI Developer | Computer Engineer
Resident in **Dubai, United Arab Emirates** (Available also in Abu Dhabi)
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GitHub: https://github.com/DoubleM01
Portfolio: https://doublem01.github.io/DoubleM/ (Full achievements & work)

Professional Summary:

Dynamic AI Developer and Computer Vision Specialist with over 3 years of proven expertise in deploying cutting-edge AI solutions for medical diagnostics and sports technologies, driving measurable advancements in accuracy and efficiency. Expertise in deep learning, embedded systems, and real-time image processing, committed to bridging the gap between academic research and practical industry applications.

Professional Experience:

1. Research Team Leader, Independent Medical AI Research Team September 2024 – Present

   - Leading a remote team focused on developing AI-driven solutions for medical diagnostics and treatment, enhancing diagnostic accuracy and treatment efficacy through innovative AI technologies.

2. Software Engineer & Team Leader, Khater Sports, Egypt 2022 – 2023

   - Led the software development team in creating advanced sports technology solutions. Spearheaded middleware systems development for sports scoreboards.

3. AI Research Intern, Nan-Yang Polytechnic (NYP), Singapore July 2023

   - Designed a deep learning-based gait detection system achieving 84% accuracy.

4. Programming Lecturer and Instructor, IEEE BUE Programming Course 2024

   - Taught topics related to dynamic programming and algorithm design, providing hands-on learning experiences to future engineers.

5. Technical Coordinator, IEEE BUE – SB 2020 – 2023

   - Organized technical workshops and led teams in national and international engineering competitions.

6. Co-Founder & Technical Lead, MYM Smart Home Solutions startup -   2020 – 2022

   - Initiated and led the development of innovative home automation solutions integrating IoT technologies.

Technical Skills:

- **Programming Languages: Python, C++, C#, MATLAB.**
- **AI Frameworks: TensorFlow, PyTorch, Keras, YOLO.**
- **Hardware Integration: NVIDIA Jetson, Raspberry Pi, Arduino.**
- **Cloud Platforms: AWS, Google Cloud.**

- **Soft Skills: Communication skills, Problem Solving, Teamwork, Planning, Networking, Cross-Field Integration, Adaptability, Hard Working.**

Top Projects:

1. Detection of Spine Deformities Using Deep Learning Models
   - Implemented a 3-phase system including vertebral localization, lumbar spine analysis, and diagnostic phases, enhancing accuracy and diagnostic depth.
   - **Tools & Libraries**: Python, Roboflow API, Open-CV, MRI image processing

2. Multi-Purpose Virtual Fitting Room
   - Developed a comprehensive system for try-on AI model with 3D previews and size recommendation.
   - **Tools & Libraries**: Python, SMPL-X, MediaPipe, YOLO, Open3D, Open-CV, Blender API, Easy-Mocap, NVIDIA Jetson Platform

3. Basketball Scoreboard App
   - Developed a scoreboard app integrated with stadium screens using Bluetooth and WiFi socket communication
   - **Tools**: Xamarin, ESP32, Multi-threaded Programming, python, Raspberry PI

Education:

- **London South Bank University (LSBU)**
  - **Bachelor of Engineering** – Major in Computer Engineering
  - **First Class Honours** (UK-Grading scale)
  - **Grade A** (US-Grading scale)

- **British University in Egypt (BUE)**

Certifications:

- **Artificial Intelligence Training Program (Zewail City of Science and Technology)**
- **Building Deep Learning Models with TensorFlow (IBM):** "Applied course insights to develop scalable neural networks for image classification."
- **Introduction to Computer Vision (IBM):** "Specialized in image segmentation and object detection using advanced OpenCV techniques."

Achievements:

- Top 5 Research and Design projects at BUE Computer Engineering 2024
- Ranked 6th in UK degree at The British University in Egypt - BUE
- Ranked globally in the top 500 at IEEEXtreme16.0
- 2nd place in software category at Intel ISEF Egypt 2018