Mahmoud Mohamed Mahmoud Ali

AI Developer | Computer Engineering Graduate | 3+ Years in AI & Python Development

- **Dubai, United Arab Emirates** (Available also in Abu Dhabi)
- **National ID:** 784-2001-2763204-8 (Ras Al-Khaimah Residency)
- **(+971) 52 996 8954 (Calls & WhatsApp)**
- **(+971) 50 135 2648 (Calls only)**
- **E-mail**: Mahmoud_2001M@outlook.com
- **LinkedIn** https://www.linkedin.com/in/doublem70/
- **GitHub** https://github.com/DoubleM01
- **Portfolio**: https://doublem01.github.io/DoubleM/

SUMMARY

AI and software engineer with a First-Class honors degree from London South Bank University. My achievements include a second-place award at Intel ISEF Egypt 2018, Founding MYM Smart Home startup, international deep learning projects in Singapore, working as R&D software Engineer in Khater sports company, and leadership as IEEE BUE's Technical Committee Head. specialized in deep learning, computer vision, and embedded AI, with experience bridging academic research and industry applications. This experience includes production skills required for AI and Computer Vision deployment and optimization.

TECHNICAL SKILLS

- **Project types:** Computer Vision, NLP, Deep Learning, Machine Learning, IoT, Desktop software development & cross platform app development (mobile),

- **Programming Languages**: Python, C#, C++, SQL, MATLAB

- **Deep Learning Frameworks**: TensorFlow, PyTorch, Keras, scikit-learn.

- **Libraries & Tools**: NumPy, Pandas, Scikit-learn, Open-CV, Matplotlib, Selenium, Beautiful-Soup, Tkinter, YOLO, Media-pipe, SMPL-X,

- **Embedded & Integration tools:** NVIDIA Jetson, Raspberry Pi, ESP32, Arduino, Proteus

- **Others technical skills:** anomaly detection, supervised learning, unsupervised learning, data pre-processing, image processing, system optimization, statistics analysis, AI-based sports analysis, AI-based medical analysis, CUDA & GPU acceleration for AI

- **Cloud skills:** Google Colab, Google Cloud, Amazon Web Services (AWS)

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

EXPERIENCE

- **Dynamic programming instructor** IEEE-BUE SB October 2024
- **AI Research Intern** in Nan-Yang Polytechnic (NYP), Singapore   July 2023
  - Developed a deep learning-based gait detection system, enhancing biomedical engineering capabilities.

- **Software Engineering Intern** in Khater Sports, Egypt June 2022 – Aug 2023
  - Led research and development of software prototypes and applications, specifically for sports technology.
  - Implemented and evaluated the middle-ware scoreboards system.
  - Developed a mobile application integrated with an embedded scoreboard using the designed middle-ware system.

- **Technical coordinator** IEEE BUE - SB Sept 2021 – March 2024 Al Shorouk City, Egypt
  - Leaded the technical department at IEEE student branch
  - participated with IEEEBUE team in IEEEXtreme Competition 16.0 and ranked globally in the top 500.

PROJECTS

- **Detection of Spine Deformities using Deep Learning Models Sept 2023 – June 2024**
  - AI-based Medical Field, Python, Roboflow API, Open-CV
  - Graduation Research Project at British University in Egypt (BUE)
  - Developed a machine learning model for diagnosing lumbar spine deformities.
  - Results Grade: A+ for project excellence and innovation.
- **Multi-Purpose Virtual Fitting Room   Sept 2023 — June 2024**
  - Python, SMPL-X, Media-Pipe, YOLO, Open3D, Open-CV, Blender API, Easy-Mocap
  - Graduation Design Project at British University in Egypt (BUE)
  - Designed an AI-driven virtual fitting room that generates 3D previews of clothes fitting on the user, with size recommendations based on the user's measurements.
  - Results Grade: A+ for the unique approach to virtual retail.
- **Speed Sign Detection Project   July 2024**
  - Deep Learning Project (GitHub)Python, TensorFlow, CNN, Open-CV
  - Built a CNN model to classify speed limit signs from images.
  - Processed a dataset of speed sign images, trained the model, evaluated performance, and made predictions on new images.

- ➢ **More projects: Portfolio**

EDUCATION

- **British University in Egypt (BUE) Sept *2019 – June 2024***

- **London South Bank University**

  - *Bachelor of engineering – Major of Computer Engineering*

  - Grade: First Class Honours

  - US Grade Equivalent: A

CERTIFICATIONS

- **Artificial Intelligence Training Program – Zewail City of Science and Technology, Nov 2023**
- **Building Deep Learning Models with TensorFlow – IBM, Sept 2023**
- **Introduction to Computer Vision and Image Processing – IBM, June 2023**
- **BUE TICO business Incubation – BUE science park, 2020**
- ➢ Preview all certificates on portfolio

Achievements:

- **1 of the Top 5 Research projects of BUE Computer Engineering 2024**
- **1 of the Top 5 Design projects of BUE Computer Engineering 2024**
- **6th ranked of UK degree in The British University in Egypt - BUE**
- **1 of Top 500 participators of IEEEXtreme16.0 globally ranked.**
- **1 of the Top 4 startups in BUE incubation and science park competition 2020**
- **2nd ranked of software Category in Intel ISEF Egypt 2018**