MOAAZ SOLIMAN

AI ENGINEER

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EDUCATION

- **Faculty Of Electronic Engineering Menoufia University (2019:2025)**
  Computer Science And Engineering

- **National Telecommunication Institute (NTI)**

  AI training (09/23 : 11/23) 120h

- **Information Technology Institute (ITI)**

  IoT Training For One Moth

- **DeepLearning.AI**

  1.*AI For Everyone*
  2.*Linear Algebra For Machine Learning*
  3.*Calculus For Machine Learning*
  4. *Tensorflow for ML*
  5.*Supervised Regression And Classification*

SKILLS

- **Programming Languages**: Python, C++,C#,Java
- **ML & DL Libraries**: TensorFlow, Keras, scikit-learn.
- **Data Analysis**: Pandas, NumPy.
- **Data Visualization**: Matplotlib, Seaborn, Plotly.
- **Deep Learning**: ANNs, CNNs, RNNs, GANs.
- **Computer Vision**: OpenCV, YOLO, Mediapipe, Dlib, Stable Diffusion.
- **Deployment**: FastAPI, Docker.
- **Tools**: Jupyter, google colab,PyCharm, Robowflow.
- **Databases**: SQL, Analysis and Design.
- **Version Control**: Git/GitHub.
- **Problem Solving**: Strong analytical and problem-solving skills.
- **Communication**: Excellent verbal and written communication skills

LANGUAGES

- Arabic
- English

OBJECTIVE

I am motivated to engage in a new experience in the field of AI and Machine Learning, expand my horizons of knowledge, and gain experience from experts on the ground. I am looking for a training opportunity as a fresh graduated to gain experience from experts in this field and work on real-world projects.

PROJECTS

- **Power Optimization and Predictive Maintenance Smart System**

  Graduation Project - Grade: A+
  Developed an intelligent system that leverages AI and sensor data to monitor and optimize power consumption in industrial environments. The solution predicts future electricity usage to reduce energy waste and provides real-time recommendations to enhance efficiency. It also includes a predictive maintenance module that detects potential machine failures before they occur, minimizing downtime and repair costs.

- **Football Analysis**
  - Yolov5 for training, I managed to get a model to track players, ball , referees, and goalkeepers.
  - Supervision module to track objects and save all objects in dictionary.
  - OpenCV for visualization and to calculate the player speed, overall distance run by the player, camera movement, etc...

- **Face Mask Detection**

  Using Transfer learning and computer vision I managed to develop a face mask detection: with this project I have raised my skills In computer vision and transfer learning.

- **Construction Site Safety Detection**

  Using the yolov8 large model to train a custom dataset that contains 16 classes
  including helmet, safety vest, safety boat, hat, mask, no vest, no helmet... to detect the site safety requirements.

- **Attendance Detector**

  Using Dlib to detect face landmarks and face encoding to detect some faces then record the attendance time of every person in a CSV file.

- **Volume Control Using Hand**

  Using mediapipe for Hand detection and tracking, pycaw to control the PC volume, and OpenCV To draw visuals To Control PC Master Volume Using Hand In Realtime

INTERNSHIP

TechnoHacks EduTech Official **OCT 2023**

One month Internship as a Data Analytics

LetsGrowMore **NOV 2023**

One month Internship as a Data Scientist

قفزة Qafza **OCT 2024 - March 2025**

MLOps Training Based On Designing Machine Learning Systems Book