Ziad Hussien
Machine Learning Engineer

Experienced Deep Learning Engineer specializing in computer vision techniques applied to medical data. Certified TensorFlow Developer with a background in academicresearch.

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EDUCATION

Faculty of Engineering
Aswan University

09/2018 - 07/2023 *Very Good with Honours (GPA = 79.58%)*

Courses

- Data Structure and Algorithms
- Operating Systems
- Database
- Computer Organization and Architecture
- Digital Design
- Microprocessing and Interface

WORK EXPERIENCE

Backend Developer Internship
Magdy Yacoub Heart Foundation

10/2021 - Present *Aswan*

An Egyptian registered charity NGO running one of the exceptional projects of enormous significance to the health of the Egyptian

Achievements/Tasks

- Using Sanic framework we are building a system for the foundation
- Creating endpoints searching users by Medical Record Number
- Organizing the system in modules pattern to make it expandable

Contact : *Mohamed Bastawi - https://www.linkedin.com/in/mohamed-bastawi-27374a74/*

ACHIEVEMENTS

Google Developer Students Club at Aswan University (GDSC) (07/2021 - Present)
Lead

ML Instructor at GDSC (07/2019 - 06/2022)
ML Engineer

SKILLS

`Tensorflow` `Pytorch` `Raspberry Pi` `Python` `Java` `C++` `Git/Github` `GCP` `Arduino` `Problem Solving` `My SQL` `VMs` `Pandas` `Numpy` `Matplotlib` `Sklearn` `Linux`

PERSONAL PROJECTS

Driver Monitoring System (09/2022 - 07/2023)

- I joined as a deep learning engineer on this graduation project. We used different CNNs, LSTM, and GRU models to detect the driver's state.
- We reduced our large dataset to be appropriate for our computational resources and used online training.
- We got high performance for the deployment of our models on different platforms, like the Jetson Nano and Android.

Web-Based System For Precision Agriculture Applications In 5G-Based Internet Of Things (09/2022 - 07/2023) 🔗

- I graduated with a grade average of Excellent (200 degrees)
- I was responsible for developing ML models to classify plant diseases and make crop recommendation systems from the sensors that are planted in the ground.
- Our model was integrated with a web-based system and mobile application after using quantization to reduce it's size and the computational resources needed.
- We got 97.75% Testing accuracy for the classification system and 99.55% for the recommendation system.

Brain Tumor Segmentation with MRI images (10/2022 - Present)

- We developed different models for brain tumor segmentation from images.
- U-Net, DeepLab and Mask R-CNN were different architectures we used with different datasets to get the best performance.

Smart Parking System (09/2022 - 02/2023)

- The Smart Parking System was a project in our Interface college course.
- We used a Raspberry Pi with Pic and Arduino to detect cars existence on the gate and control entry and exit of the garage depending on sending signals between the components.
- The cars were assigned to the empty spots in the park automatically by using the ESP WiFi module.

Data Structure Visualizer (2021) 🔗

- Visualization of Data Structure and Algorithms performance using Java

CERTIFICATES

HCIA-AI (2020 - 2023) 🔗
*AI certificate from **Huawei***

TensorFlow Developer Certificate (02/2022) 🔗
https://www.credential.net/group/173243