Kirolos Magdy Fayez

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Cairo, Egypt

Education

Studied at the Faculty of Computer and Information Science, Majored in Scientific Computing – Ain Shams University (2020 – 2025)

Experience

Generative Ai Intern
Digital Egypt Pioners Initiative (DEPI) Hosted by CLS Learnin Solution *2025 – Present*
Cairo_Egypt

Gained hands-on experience in developing and implementing generative AI models, applying theoretical knowledge in real-world scenarios.

Collaborated with cross-functional teams to analyze and preprocess datasets, enhancing data quality for model training.

Conducted research on cutting-edge generative AI technologies, demonstrating strong analytical and problem-solving skills.

Developed effective communication skills through presentations and project documentation for diverse stakeholders

ApplAi

Python Developer Trainee Jan 2024 - Feb 2024

I was responsible to create a model for classifying the water potability using Machine Learning algorithms, Python, and Anaconda.

Ain Shams University

Summer Trainee Aug 2022 - Sep 2022

Technical Skills

Programing: **C++ , Python , Java**

Frameworks: **Sklearn , Pytorch , Keras**

Data Visualization Frameworks: **Plotly , Matplotlip , Seaporn**

Skills : **OOP , Statistics , Image Classification , Segmentation , Digital Signal Processing , Data Structures**

Projects

- **Graduation project**

  AI-Powered 3D Reconstruction and Tumor Detection of Brain MRI Images

  Classification: Utilized Convolutional Neural Networks (CNN) for effective classification of brain tumors based on MRI data.

  Segmentation: Used the U-Net architecture for precise segmentation of tumor regions from MRI images.

  3D Reconstruction: Employed VTK (Visualization Toolkit) for visualizing segmented tumors in three dimension,enhancing diagnostic capabilities

- **ECG Signal-Based Personal Photo Lock**

  A project developed using signal processing techniques in Python. It secures personal photos by using electrocardiogram (ECG) signals for authentication, ensuring that only authorized users can access the locked content

- **Speech Recognition System Identification**

  A project built using C# and Dynamic Time Warping (DTW). It identifies and classifies spoken words based on speech patterns, utilizing DTW for measuring similarity between audio inputs.

- **Heart Disease Detection**

  A Machine Learning project built using Linear Regression and SVM, implemented in Python. Classifies whether a person has a heart disease or not based on some provided features.

- **Egyptian Vaccine Tracking System**

  A system implemented using C++ and different data structures, that allows users to enter their personal and vaccination info. and calculates some basic statistics.

- **Budget Tracker System**

  A system designed to help people save, calculate and organize their household's budget, and generates reports. It is implemented using C++.