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Work Experience

Inspire for Solutions Development

Artificial Intelligence Engineer

Cairo, Egypt

November 2023 -

- Building AI assistants for corporations using IBM technology such as IBM watsonx, watsonx Assistant, and watsonx discovery, and integrating with various systems such as STT, TTS, and sing language interpreters

NajahNow Corporation

Machine Learning Researcher Intern

Cairo, Egypt

August - October 2022

- Developed (NLP) models for detecting individuals' mental health state based on their social media posts. we also curated a benchmark dataset.

Education

Cairo University

B.Sc. of Computers and Artificial Intelligence

Cairo, Egypt

September 2019 - July 2023

- GPA: 3.65 (Excellent)
- TOP-5 student in AI department
- Key Courses:** Theoretical Foundations of Machine Learning, Generative Adversarial Network, Supervised Learning, Unsupervised Learning, Brain Computer Interface, Intelligent Autonomous Robotics, Reinforcement Learning, Natural Language Processing

Projects

Graduation Project - Visual Question Answering

- Training a BLIP model for ImageQA to help visually impaired people.

Denoising AutoEncoder

- Developed a denoising autoencoder model to compress and reconstruct fast food images, highlighting impacts of training data size and encoded vector dimensions.

Object Detection Model

- Developed and trained a YOLOv5 model on a custom dataset we collected.

Thermonuclear Supernovas parameters prediction

- This project was my Google Summer of Code proposal, where I did some EDA on the data before building a model that will classify and predict the physical parameters for Thermonuclear Supernovas from their observable parameters.

Hand movement classification

- Analyzing EGG signals from the scanned from the human brain and analyzing, visualizing, transforming the signals, and classifying the signal whether it corresponds to right/left-hand movement.

Sentence Auto Complete Tool

- Designed an LSTM and Word2Vec-based autocomplete system trained on Enron emails dataset, providing interactive sentence completion.

Volunteering

Unify.AI

Ivy

Remote

June-July 2023

I volunteered and contributed to Unify.AI regarding the Ivy project, which had the aim of unifying ML frameworks, I solved some issues, got feedback from the developers, and managed to push my changes into the code base