

Eyad Mostafa

Machine Learning Engineer

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About Me

A Computers Enthusiast who has a deep passion for academic/theoretical studies. Always seeking to undertake challenging projects and endeavours that will help me learn and grow.

Education

Bachelors of Computer Science (Hons),

British University in Egypt

Ranked 1st in Computer Science Major

09/2019 – 07/2023 | Cairo, Egypt

Bachelors of Computer Science (Hons),

London South Bank University

09/2019 – 07/2023
London, United Kingdom

Projects

Deep Learning Sentiment Analysis (IMDB

05/2025 – 05/2025

Reviews)

An Implementation and comparison of RNN, LSTM, BERT model in PyTorch for binary sentiment classification on the IMDB dataset. Involved the use of many NLP techniques like tokenization and lemmatization. Developed distinct preprocessing pipelines for each architecture. Achieved 86% validation accuracy with LSTM and 96% validation accuracy with BERT

Tools Used: **PyTorch, Hugging Face transformers, Matplotlib, Pandas, NLTK**

Video Ascii Encoding & Playback in Linux

10/2024 – 11/2024


Terminal

This project transforms a video into separate ascii frames that can be played back in a Linux Terminal

Tools Used: **C++, Bash, FFMPEG**

ECG Sleep Apnea Detection Using Machine Learning & Deep Learning (Graduation Project)

09/2022 – 07/2023

Applied Exploratory Data Analysis techniques and feature extraction methods used in research papers for training of Machine Learning models (SVM, KNN) achieving 82% training accuracy and 79% test accuracy and implemented CNN and Autoencoder architectures (89 % training accuracy & 88% test accuracy) for Deep Learning models to detect sleep apnea from ECG signals
dataset: (<https://physionet.org/content/apdet/1.0.0/> )

Tools Used: **Tensorflow/Keras, Scikit Learn, Pandas, Numpy, wfdb**

Maze Path Finding Using Q-Learning

01/2022 – 03/2022

An implementation of the famous Q-Learning algorithm using python with a GUI to create/visualize the maze as well as the Q-Learning agent during maze learning epochs.

Tools Used: **Python, Pygame**

Skills

C/C++	Python
Tensorflow/Keras	Matplotlib
Seaborn	Pandas
Numpy	Linux/Bash
Scikit Learn	Docker
Kubernetes	Azure
Git/Github	PyTorch
SQL	

Professional Experience

3D Diagnostix, · *Customer Service agent* 08/2020 – 01/2021 | Cairo, Egypt
Acted as an intermediary link between the company's customers (Doctors based in the U.S) and in house doctors facilitating workflow and providing support.

Souq.com (Amazon.eg), · *Customer Service Agent* 11/2017 – 02/2018 | Cairo, Egypt
Provided efficient and effective support for Amazon customers based in UAE during high traffic events such as White Friday.

Ministry of Interior, *Military Service - Video Editor* 09/2023 – 12/2024 | Suez, Egypt
Prepared professional documents/presentations for executive decision makers. In addition, edited various videos for T.V broadcasting and Social Media publishing.

Certificates

AZ 104 – Microsoft Azure Administrator Associate — Completed on January 12,2025
(Credential ID: 1A68A767D011FB5C)