Islam Abd_Elhady

Machine Learning Engineer & Instructor

About

Computer Science student at the Faculty of Computers and Information, Assiut University with a fervent interest in utilizing machine learning, deep learning, data science, and data analysis to create innovative solutions. Proficient in various programming languages, including C, C++, Java, C#, and Python, I possess valuable problem-solving skills and hands-on experience in ASP.NET MVC and Flask. Beyond technical expertise, I excel in teaching, work cooperation, and team leadership. Currently working as a Programming & AI Instructor, I teach children programming in languages such as Scratch and Python, imparting knowledge on artificial intelligence. Eager to collaborate with talented professionals and contribute to meaningful advancements in the field of computer science.

Experience

Programming & AI Instructor

Future kids & Codemy | 2024.01 – Present

I work as a Programming & AI Instructor for children from 6 to 20 years old. I teach them programming in different programming languages such as Scratch and Python. I also teach them artificial intelligence.

Director of Research & Development Committee

ACM Assiut University Student Chapter | 2023.10 – Present

Machine Learning Instructor

Student Union of the Faculty of Computers and Information - Assiut University | 2023.9 – 2023.11

I taught a Machine Learning course in cooperation with the Student Union of the Faculty of Computers and Information - Assiut University, and I explained the following:

- Python Basics
- Packages (Numpy, Pandas & Matplotlib)
- Overview Of Machine Learning
- Regression Model
- Gradient Descent
- Multiple Linear Regression
- Gradient Descent in Practice
- Classification With Logistic Regression
- Cost Function & Gradient Descent For Logistic Regression
- The Overfitting Problem
- Machine Learning With Scikit-Learn, Practices and Projects
- Introduction to Neural Networks

In addition, I explained and implemented many projects, whether from scratch or using the Scikit-Learn library during the course period.

Contact

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LinkedIn

GitHub

Education

ASSIUT UNIVERSITY

4rd Year Student in Computer Science, Faculty of Computers and Information
2020 – 2024

Skills

Programming Languages

- **C**
- **C++**
- **Java**
- **Python**
- **C#**
- **PHP**
- **MATLAB**
- **Scratch**

Conceptual Knowledge

- **Object Oriented Programming**
- **Data Structures & Algorithms**
- **Compilers**
- **Artificial Intelligence**
- **Machine learning**
- **Deep Learning**
- **Computer Vision**
- **Data Analysis**
- **Embedded Systems**
- **Computer Networks**
- **Database: SQL**
- **Git & GitHub**
- **Calculus**

Certificates

Advanced Learning Algorithms

DeepLearning.AI | 2023.09

Certificate link

Deep Learning with PyTorch : Image Segmentation

Coursera | 2023.09

Certificate link

Embedia Competitive Programming Competition

Embedia | 2023.08

Certificate link

Mathematics for Computer science

BIO CODE Assiut University | 2023.08

Certificate link

Supervised Machine Learning: Regression and Classification

DeepLearning.AI | 2023.03

Certificate link

Python Programming Basics

MaharaTech | 2023.02

Certificate link

Database Fundamentals

MaharaTech | 2023.02

Certificate link

Projects

Credit Card Fraud Detection using Decision Tree

Credit Card Fraud Detection using Decision Tree & Trees Ensemble (Random Forest & XGBoost).

GitHub link

Titanic Survivor Prediction

Titanic Survivor Prediction using Random Forest.

GitHub link

Neural Networks for Handwritten Digit Recognition Multiclass Classification

Use a neural network to recognize the hand-written digits 0-9.

GitHub link

- **Linear Algebra**

Technologies

- **ASP.NET MVC**
- **Flask**
- **scikit-learn**
- **TensorFlow**
- **PyTorch**
- **OpenCV**
- **Unity**

Personal Skills

- **Problem Solving**
- **Self Learning**
- **Teaching**
- **Communication**
- **Teamwork**
- **Leadership**

Languages

- **Arabic - Native**
- **English - C1**

Cars Prices Prediction with Flask

Cars Prices Prediction Using Machine Learning and Deployment the model with Flask.

GitHub link

Heart Failure Prediction using Trees Ensemble

Heart Failure Prediction using Decision Tree & Trees Ensemble (Random Forest & XGBoost).

GitHub link

Breast Cancer Classification with Neural Networks

Use Neural Networks to classify Breast Cancer as Benign or Malignant.

GitHub link

SONAR Rock vs Mine Prediction

SONAR Rock vs Mine Prediction using Logistic Regression.

GitHub link

Machine Learning Algorithms From Scratch

Machine Learning algorithm implementations from scratch.

GitHub link

SKlearn Datasets Model Test From Scratch

Testing models using the datasets in the scikit-learn library.

GitHub link

Image processing Project Steganography

Hiding an image inside another using Python.

GitHub link

Blood Bank Management System MVC

Blood Bank Management System with MVC.

GitHub link

Skip List

Skip List Using Java.

GitHub link

Embedded Lock System

The Embedded Lock System is a collaborative project designed to implement a secure lock system. The system utilizes Proteus 8 Professional for simulation and CodeVisionAVR Evaluation for programming the ATmega16 microcontroller. Written in the C programming language, the system encompasses three main functionalities: opening the door, setting a new passcode (PC), and accessing administrative features. The project is organized into three distinct parts, with each part expertly handled by different contributors.

GitHub link

Snake Game 3D

3D Snake Game with Unity.

GitHub link

Endless Runner Game

An endless runner game like subway or temple run with Unity, where the player will run in one direction switching between lanes with obstacles in the opposite way.

GitHub link

College System

First OOP project (FCI system) 2022 Console application that stores and organizes data about students, professors, technicians, workers, instructors, and administrators in the university. I was the project leader; I implemented a large part of it. Implemented many concepts of object-oriented programming like composition, inheritance, and polymorphism. The implementation of this system was by the Java programming language.

GitHub link

Ping Pong Game

Ping Pong Game using python.

GitHub link

Achievements

- Obtaining third place in the first scientific hackathon at Assiut University (SolveX) in the field of engineering sciences by manufacturing a **MINE-DETECTION-DRONE** that works with artificial intelligence, and obtaining first place with the same idea in the Green Dream Conference at Assiut University in the field of Development and Egypt's Vision 2030.
- Participation in the ECPC 2022 competition.

  Certificate link