Aghapy Elgohary

Undergraduate Software Engineer

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LeetCode :leetcode.com/aghapy

Education

- **Faculty Of Engineering Alexandria University**   Alexandria, Egypt
  Computer and Communication Department third year.   *Sep. 2016 – June 2021*

Projects

- **8 Puzzle :** a java application to solve the 8-Puzzle game using different search techniques like : Breadth Frist Search, Depth Frist Search and A*.

- **Image segmentation :** Image segmentation is a classification problem of an image into different groups. There are different methods and one of the most popular methods are K -means clustering , Normalized Cut algorithms are unsupervised algorithm and it is used to segment the interest area from the background. Accuracy Measuring by F score algorithm From results more Ks the less Accuracy

- **MURA (MUsculoskeletal RAdiographs VGG19 Model) :**

  MURA is a large data set of bone X-rays. Algorithms are tasked with determining whether an X-ray study is normal or abnormal Seven Body parts (hand, humerus, Finger, Elbow, Arms, shoulder, Wrist), Comparing Results to the inception.V1 are near, As the VGG19 is very simple in architecture than the inception.V1.

- **Paint :** Applied OOP concepts using java , offer a big number of features that includes but is not limited to:Drawing, Coloring, and Resizing.

- **Spelling System :** In this assignment i was required to implement a binary search tree Initially will be given a dictionary of words to build my binary search tree ,the comparison between strings . .

- **MENA :** using Global Terrorism Database in Middle East and North Africa Countries predicting terrorist attacks that occurred worldwide since 1970 Classification due to number of the top groups used different classifiers and measured accuracy, precision, recall and F-measure as models like : Decision trees , Adaboost , k-nearest-neighbour .

- **Beach Resort :** simple Room Services Menu implemented using ReactJs.

- **Messages System (synchronization and deadlock Problem):** Handling races, conditions, to solve the messages come randomly to the system, this can be realized if the threads sleep for random times, and their activation (sleep time ends) will be activated at random time intervals used POSIX threadsand mutex .

SKILLS

Languages : Python, Java, C, JavaScript, MATLAB, SQL	**Web Development: :** ReactJS, NodeJS	
Deep Learning : TensorFlow, Keras	**Other Tools:** GitHub,Colab, jupyter, Visual Studio,Linux	

RELATED COURSES

Object Oriented Programming	**Data-structures Algorithms**	**Artificial Intelligence**
Database Management Systems	**Pattern Recognition**	**Operating Systems**

ACTIVITIES

Public relation At ACM Alexandria Student Chapter

Volunteer in IrisX2020 UI/UX