Welcome To AI Session

AI Session Outline

Туре	Material	Time Consuming
Theoretical	Introduction	5 Minutes
Theoretical	What is Artificial Intelligence ? (AI)	5 Minutes
Theoretical	What is Machine Learning ? (ML)	10 Minutes
Theoretical	Task 1 Search about some Algorithms and present wuth discussion	40 Minutes
Break		10 Minutes
Theoretical	What isDeep Learning? (DL)	5 Minutes
Theoretical	Introducn to neural networks	5 Minutes
Theoretical	Al Applications	5 Minutes
Theoretical	Al Programming Languages	5 Minutes
Practical	Python libraries Pandas, Matplolib, numpy	5 Minutes
Practical	Task 2: read data using pandas and plot it using Matplolib	40 Minutes
Break		10 Minutes
Practical	Al Applications: Alexa, Face destection, Image Segmentation, Image classification, data regression, chatApp, Word Sentiment App, Speech Recognition, ChatGpt 3	20 Minutes

Theoretical	Discuss About This topic	10 Minutes
Practical	Task 3: Use one of these applications and emebd it in your Django app	40 Minutes
Break		10 Minutes
Theoretical	Questions About this session	15 Minutes

- Consuming Time of discussion: 90 Minutes.
- Consuming Time of Practical Training: 2 Hours.
- Breaks: 30 Minutes.overall time: 4 Hours.
- Expected Date: After JAVA Stack or Python Stack.

Before the session each group must:

1- Install Anaconda using (https://www.anaconda.com/download) then create virtual environment using Anaconda inside this virtual Environment install:

- 1- Matplotlib:
- >>pip install matplotlib
- 2- numpy:
- >>pip install numpy
- 3-pandas:
- >>pip install pandas
- 4- CV2:
- >>pip install opency-python
- 5-Tensorflow:
- >>pip install tensorflow
- 6-skimage:
- >>pip install scikit-image
- >>pip install skimage
- 7-sklearn:
- >>pip install sklearn
- 8-nltk:
- >>pip install nltk
- 9-textBlob:
- >>pip install textblob
- 10- Speech Recognition
- >>pip install SpeechRecognition
- 11- openAi:

- 2- create empty Django App with its Configurations.
- 3- Search and get some basic Knowledge about Artificial Intelligence, Machine Learning, Deep Learning, Neural Networks and Natural Language Processing terms. (just know what the terms means)

4- Each group must read about their topic:

Group 1: K- Nearest Neighbor KNN

Group 2: Conventional Neural Networks

Group 3: Regression and Gradient Descent

Group 4:Support Vector Machine

Group 5: Decision Tree Group 6: Naïve Bayes

Group 7: Clustering

Test if these liberals work on your computer, for any issues please contact Khalid.Khader@AXSOS.Academy , +972568807701 or via discord you can also book appointment with me via https://calendly.com/khalid-khader Notes:

- Every group must install at least 7 libraries.
- You cant proceed with AI Session without installing these libraries before 29th May.

Best Regards Khalid Khader