

Assignment #04

Hope To Skills

Free Artificial Intelligence Course

Instructor: Irfan Malik, Dr. Sheraz

Submission:

- Make a Google Collab notebook to implement this assignment.
- In case you face difficulty in creating the Google Collab Notebook Follow these [Steps](#)
- Make Submission in the **Assignment-04** Google Form and press the submit button.
- Submit a **.ipynb** file detailing all the information. No other format will be accepted
- Submission file should be named as **HTS_Assignment_04.ipynb**
- Deadline for this Assignment is **Friday 20-06-2023**
- To Submit the Assignment, click [here](#) to visit submission portal.

Solve the Following Task

- Write a function called **calculate_sum** that takes a list of numbers as an argument and returns the sum of those numbers.
 - Example: Input: calculate_sum([1, 2, 3, 4, 5]) Output: 15
- Write a function called **remove_duplicates** that takes a list as an argument and returns a new list with duplicate elements removed.
 - : Input: remove_duplicates([1, 2, 2, 3, 4, 4, 5]) Output: [1, 2, 3, 4, 5]
- Write a function called **find_max** that takes a list of numbers as an argument and returns the largest number in the list.
 - Example: Input: find_max([10, 5, 8, 20, 3]) Output: 20
- Write a function called **remove_duplicates** that takes a list as an argument and returns a new list with duplicate elements removed.
 - Example: Input: remove_duplicates([1, 2, 2, 3, 4, 4, 5]) Output: [1, 2, 3, 4, 5]
- Write a function called **Sentiment_analysis** that takes the input string from the user and return the sentiment of the string. Use the Open.ai API for this task.
 - Example: Input "I am Happy" Output: Positive

- Example: Input “I don’t like the Rain” Output: Negative
 - Example: Input “I am going out” Output: Neutral
- Write a Function called **Tweet_generator()** that takes input string from the user and return the Tweet generated on the given topic. Use the open.ai API for this task.
 - Example: Input “Artificial Intelligence”
 - Output: "Artificial Intelligence is reshaping the world, revolutionizing industries, and unlocking unimaginable possibilities. From autonomous vehicles to personalized recommendations, AI is transforming our lives, making it smarter and more efficient. Embracing AI opens up a new era of innovation, where machines learn, adapt, and augment human capabilities. Exciting times ahead as we witness the incredible power of Artificial Intelligence. #AI #ArtificialIntelligence #Innovation"

Note: Use the python comments to explain your logic and code