Assignment #07

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**
- Submit a **.ipynb** file names as **HTS_Assignment_07.ipynb**
- Deadline for this Assignment is **Wednesday 19-07-2023**
- Also mention your name in the Assignment.
- Make Submission in the **Assignment-07** in Google form and press the submit button.
- To access the submission form click here
- To download the dataset, click here

Solve the Following Task

1. **Perform EDA on the Dataset Which should include**
    a. Visualization and explore the data using seaborn
        i. Add your findings about the data under each graph in the code notebook
    b. Identify the data patterns if exist for single/multiple variables
        i. Write your findings under the plots or code that identify the pattern
    c. Clean the dataset, remove the missing values as mentioned in the **Lectures 15**
        i. Explain your approach in the Collab notebook text cell
    d. Select the target variable and clearly mention the reason for selecting it.
    e. Separate the target variable from the data set.

2. **Use the Scikit Learn Library to fit the Classification model**
    a. Split the data into train test sets
    b. Use logistic regression to train the model
    c. Test the model and display the accuracy of the model.