Assignment 1

Machine Learning Classifier

Date:- 19-12-2023

Instructions:

1. **Coding must be done using Python, and available libraries such as numpy, pandas and scikit learn**

can be used.

2. Proper indentation and appropriate comments are mandatory.
3. You should zip all the required files and name the zip file as ***roll_no*.zip**, eg. **1501cs11.zip. 4.** Upload your assignment (**the zip file**) in the following link: https://docs.google.com/forms/d/e/1FAIpQLSfmTzgDcJuyyczT4yRM5aeJJ7FTNpEOHWf2_-WwXZ-0PT5_lw/viewform?usp=sharing

Assignment-1

Design a predictive regression model that forecasts sales based on the "Advertising.csv" dataset. Afterwards, employ logistic regression and Support Vector Machines (SVM) to predict defaulters using the "Credit.csv" and "Credit-Modified.csv" datasets. Perform a 70-30 train-test split for model evaluation and measurement of performance. Create a scatter plot with a clear separation line to visualize the data distribution.

Dataset Link:

Advertising.csv:
https://drive.google.com/file/d/1TqQj66OJGyFYyPymVL60v2Aqs61u1B69/view?usp=sharing
Credit.csv:
https://drive.google.com/file/d/1BHxgqsgccxepOR8Iu3SUSanGj286MNHz/view?usp=sharing
Credit-Modified:
https://drive.google.com/file/d/1pKZM1aJKnfbTdZ7vsZJSzjre3cCuBpLZ/view?usp=sharing