

Day10 Questions

PCA & LDA

- 1) a) Apply PCA for the `breast_cancer` dataset in sklearn to reduce the number of columns to 2 and find out the accuracy score and confusion matrix. Split the data using `train_test_split` function for training and testing. Use Support Vector Classifier.

b) do the same for the wine dataset
- 2) a) Compute the RMSE values of the ML model using SVR after applying PCA to reduce the number of columns to 3 in the diabetes dataset. Observe the effect of varying the number of principal components in the model development.
b) do the same for boston dataset.
- 3) Develop an ML model for the `breast_cancer` dataset in sklearn using LDA.

```
(from sklearn.discriminant_analysis import LinearDiscriminantAnalysis)
```


Print the accuracy and confusion_matrix.