Lab 8 Task

Part 1: Due 09:00 PM, today

Do the following steps,

1- Pick a dataset of your choice from the internet. You can use any site like Kaggle, Data.org etc for the problem of classification.
2- Dome some simple EDA
3- Some simple preprocessing of your own choice.

Tasks on Original Data using Naive Bayes

Perform 5-Fold Cross Validation
Perform Grid Search CV over 3 parameters

Part 2: Due 11:00 PM, 27-11-2021

Now perform PCA on your data, find the number of principal components such that they capture the 90% variance of the original data. And perform the following on the new dataset.

Perform 5-Fold Cross Validation
Perform Grid Search CV over 3 parameters

Compare the results, and write your conclusion in 2 or 3 lines.