Week9: CS 6301 - Machine Learning Lab

Date: 16.5.22

Instructions:

1. For exercises and spot write the results obtained, plots and inferences (what do u understand from the results).

2. Write ur own functions (instead of packages) for the algorithms to get full mark.

1. Implement Linear Discriminant Analysis (5)

Perform classification of NIR spectra data with Linear Discriminant Analysis. <u>https://github.com/nevernervous78/nirpyresearch</u>

2. Implement Principal Component Analysis (5)

Perform dimensionality reduction using PCA. Use your own dataset.

3. Compare LDA and PCA (5)

Compare the performance of LDA with PCA for dimensionality reduction with the same data?