School of Computer Science and Engineering, VIT Chennai.

BCSE209L Machine Learning

**Lab-11 PCA**

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**Due Date : 26/10/2022**

Q1. Apply Principal component analysis (PCA) on the heart disease dataset.

1. Project the data onto new space using first 3 principal components.
2. Apply SVM on the projected data and compare accuracy with SVM + original data.

Q2. Apply PCA on shop dataset and identify 3 customer groups using hierarchical clustering. Check whether PCA improves clustering performance (use Rand index for comparison)