BCSE209P - Machine Learning Lab

Digital Assignment 4

- 1. Implement K Nearest Neighbors algorithm for iris dataset and evaluate the algorithm with accuracy, precision, recall and F1-score.
- 2. Load a **customer segmentation dataset** with categorical variables (e.g., demographics, shopping preferences).
 - Apply **K-Modes clustering** with different values of **K** (number of clusters).
 - Use the **cost function plot** (like the Elbow method) to determine the best number of clusters.
 - Evaluate clustering quality using **purity score or silhouette score**.