

ASSESSMENT 4
MACHINE LEARNING
WINTER SEMESTER 2022 – 2023
CSE4020

1. Implement Hierarchical clustering.
2. Implement Gaussian Mixture Model Using the Expectation Maximization.
3. Evaluating ML algorithm with balanced and unbalanced datasets.
4. Implement K-means Clustering.
5. Implement K-mode clustering.
6. Compare the performance of following Machine Learning algorithms for the “National Institute of Diabetes and Digestive and Kidney Diseases” dataset available in the Kaggle database.
 - a. K-nearest neighbour classifier,
 - b. Decision tree classifier,
 - c. Support Vector Machine.
7. Implement Principle Component Analysis for Dimensionality Reduction.