Machine Learning Lab, B.Tech 5th Semester

Instructions

- 1. You are required to submit your assignment responses by 12 PM today through the Google Form that has been emailed to you.
- 2. There will be evaluation for this assignment.
- 3. Plagiarism checking will be performed on all the submissions for this assignment. If plagiarism is detected, your assignment will not be evaluated.

Evaluation Assignment 2

Total Marks: 10

- 1. A. Implement the K-means clustering algorithm (without using any in-built library function) on the IRIS dataset (without considering the label-column). Report the sum-square-error (SSE), silhouette coefficient, and the number of iterations required for convergence (for different K values).
 - B. Implement another version of K-means clustering algorithm (without using any in-built library function) on the IRIS dataset, where a labelled sample is available from each class and initial cluster centres are chosen from these labelled samples only. Report the sum-square-error (SSE), silhouette coefficient, and the number of iterations required for convergence (for different K values).
 - C. Report comparative analysis of performance measures of both the algorithms for different K values.