

Machine Learning Lab, B.Tech 5th Semester

Instructions

1. This is only for practice. Complete it by 12:00 PM today. Your completion will be reviewed by the Teaching Assistants.

Practice Assignment 6

1. Consider any dataset. You can create your own or download any publicly available dataset.
 - (a) Perform K-Means Clustering by selecting the optimal value of k and using Euclidean distance as the similarity measure. Evaluate the algorithm under the following three conditions, and observe the differences in the resulting clusters.
 - i. Maximum number of iterations
 - ii. Cluster centroid remains unchanged
 - iii. Highest quality of cluster is reached.
 - (b) Repeat the above question with K-medoids algorithm. Note the difference between the final clusters.

Note: You are not allowed to use inbuilt function of any machine learning model.