

Department of Computer Science & Engineering

Final Year B. Tech. (CSE) – I : 2021-22

4CS462 : PE2 - Data Mining Lab

Assignment No. 7

Use / extend the data analysis tool (menu driven GUI) developed in Assignment No. 2 to perform the following task :

1. Design and implement the following clustering algorithm:
 - a) Hierarchical clustering - AGNES & DIANA. Plot Dendrogram.
 - b) *k*-Means
 - c) *k*-Medoids (PAM)
 - d) DBSCAN
2. Tabulate the results with cluster validation accuracy
3. Use the following data sets from UCI machine learning repository :
 - a) IRIS
 - b) Breast Cancer
 - c) For DBSCAN, use *US Census Data (1990) Data Set*
[https://archive.ics.uci.edu/ml/datasets/US+Census+Data+\(1990\)](https://archive.ics.uci.edu/ml/datasets/US+Census+Data+(1990))

Deadline : 16/10/2021

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