

MACHINE LEARNING ASSIGNMENT -3

1-D

2-D

3-C

4-B

5-D

6-C

7-D

8-A

9-A

10-B

11-A- The single link or MIN version of hierarchical clustering, the proximity of two clusters is defined to be the minimum of the distance between any two points in the different clusters.

12-B-The single link or MAX version of hierarchical clustering, the proximity of two clusters is defined to be the maximum of the distance between any two points in the different clusters.

13-Importance of Clustering Methods

- Clustering methods helps in restarting the local search procedure and remove the inefficiency. In addition, clustering helps to determine the internal structure of the data.
- This clustering analysis has been used for model analysis, vector region of attraction.
- Clustering helps in understanding the natural grouping in a dataset. Their purpose is to make sense to partition the data into some group of logical groupings.

- Clustering quality depends on the methods and the identification of hidden patterns.
- They play a wide role in applications like marketing economic research and weblogs to identify similarity measures, Image processing, and spatial research.
- They are used in outlier detections to detect credit card fraudulence.