Module-4 Clustering

1) Explain the applications w.r.to cluster analysis

2) Specify the requirements for cluster analysis

3) Compare the clustering methods w.r.to orthogonal aspects

4) Briefly outline basic clustering methods

5) Explain k-means partitioning algorithm

6) Apply the k-means partitioning technique on a 1-D dataset of seven points namely: (1,2,3,8,9,10, 25), for k=2. Compute the within cluster variation E.

7) Compare Agglomerative hierarchical clustering and Divisive hierarchical clustering

8) List the distance measures used in hierarchical algorithmic methods

9) Explain Multiphase hierarchical clustering using clustering feature trees

10) Explain hierarchical clustering using linkage and complete linkage

11) List the two strategies used for hierarchical clustering and Explain

12) Explain Density-Based clustering based on connected regions with high density

13) Specify major tasks of clustering evaluation

14) Briefly outline the steps involved in calculating Hopkins statistic

15) Explain how determining the number of clusters in a dataset is important.

16) List the criterias involved in measuring clustering method. Explain

17) Explain extrinsic clustering quality measurement method

18) Explain intrinsic clustering quality measurement method

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