Machine learning

Assignment -1

- Q1- B4
- Q2- D-1,2 and 4
- Q3- D- Formulating the cluster problem
- Q4- A Euclidean distance
- Q5- B Divisive clustering
- 6 B- Number of cluster
- 7- A- Divide the data points into group
- 8- B Unsupervised learning
- 9- D- All of the above
- 10- A- k means clustering algorithm
- 11- D- All of the above
- 12 A- Labeled data
- Q13 measuring the distance between each data point and its centroid, squaring this distance, and summing these squares across one cluster.

Q14 To measure the quality of a clustering, we can use the average silhouette coefficient value of all objects in the data set.

Q15 It is a type of clustering model closely related to statistics based on the modals of distribution. Objects that belong to the same distribution are put into a single cluster. This type of clustering can capture some complex properties of objects like correlation and dependence between attributes.

Types of Clustering

- Centroid-based Clustering.
- Density-based Clustering.
- Distribution-based Clustering.
- Hierarchical Clustering.