Module5_quiz_DM_DW

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Which is the not the issue in hierarchical clustering? * 1 point

- ○ Lack of a Global Objective Function
- ◉ avoid the difficulty of attempting to solve a hard combinatorial optimization problem.
- ○ Ability to Handle Different Cluster Sizes
- ○ Once cluster merged it cannot be undone

Movie Recommendation systems are an example of: * 1 point

- ☑ Clustering
- ☐ Classification
- ☑ Reinforcement Learning
- ☐ Regression

Assigning each object to a single cluster is known as-------- * 1 point

- ○ Hierarchical Clustering
- ◉ Partitional Clustering
- ○ Overlapping Clustering
- ○ Exclusive Clustering

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For two runs of K-Mean clustering is it expected to get same clustering results? * 1 point

- ○ Yes
- ◉ No

What is medoid? * 1 point

- ○ average of all the points in the cluster,
- ◉ sum of all the points in the cluster,
- ○ variance
- ○ the most “representative” point of a cluster

Closeness in clustering is measured using * 1 point

- ◯ Euclidean distance
- ◯ cosine similarity
- ◯ correlation
- ◉ all the given options

----------is a clustering technique which is a set of nested clusters that are organized as a tree * 1 point

- ◉ Hierarchical Clustering
- ◯ Partitional Clustering
- ◯ Overlapping Clustering
- ◯ Exclusive Clustering

If Clustering is based on Centroid, that means it is ---------- clusters * 1 point

- ◯ Well separated cluster
- ◉ Center based Cluster
- ◯ Contiguous Cluster
- ◯ Density based cluster

What is the minimum no. of variables/ features required to perform clustering? * 1 point

- ○ 0
- ◉ 1
- ○ 2
- ○ 3

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A cluster is a set of points such that a point in a cluster is closer (or more similar) to one or more other points in the cluster than to any point not in the cluster. * 1 point

- ○ Well separated cluster
- ○ Center based Cluster
- ◉ Contiguous Cluster
- ○ Density based cluster

Name *

Anirudh Krishnaprasad

Which is NOT TRUE about DBSCAN Clustering? * 1 point

- ○ handles noise
- ○ handles clusters of arbitrary shapes
- ○ Ability to Handle Different Cluster Sizes
- ◉ It can handle high dimensional data

In k-Means clustering, k refers to---------- * 1 point

- ☑ Number of Clusters
- ☐ Number of data points
- ☑ number of centroids
- ☐ number of variables in data set

Which of the following refers to the problem of finding abstracted patterns (or structures) in the unlabeled data? * 1 point

- ○ Supervised learning
- ◉ unsupervised learning
- ○ Reinforcement learning
- ○ Hybrid learning

In a ---------- clustering, every object belongs to every cluster with a membership weight of value between 0 and 1. * 1 point

- ◯ Hierarchical Clustering
- ◯ Partitional Clustering
- ◉ Fuzzy Clustering
- ◯ Exclusive Clustering

Objects belong to more than one cluster is known as ---------- * 1 point

- ◯ Hierarchical Clustering
- ◯ Partitional Clustering
- ◉ Overlapping Clustering
- ◯ Exclusive Clustering

Which among the following is not the post processing approach in Clustering? * 1 point

- ◯ Eliminate small clusters that may represent outliers
- ◯ Split 'loose' clusters, i.e., clusters with relatively high SSE
- ◉ Merge clusters that are 'close' and that have relatively low SSE
- ◯ Eliminate outliers

Division of the set of data objects into non-overlapping subsets (clusters) such that each data object is in exactly one subset is called * 1 point

- ○ Hierarchical Clustering
- ◉ Partitional Clustering
- ○ Overlapping Clustering
- ○ Fuzzy Clustering

----------algorithm produces a partitional clustering, in which the number of clusters is automatically determined by the algorithm. * 1 point

- ◉ DBSCAN Clustering
- ○ Agglomerative Hierarchical clustering
- ○ Prototype Clustering
- ○ Center Based Clustring

What is NOT TRUE about Clustering? * 1 point

- ☑ In clustering, Inter cluster distance is minimized
- ☐ In clustering, Intra cluster distance is minimized
- ☐ Clustering is assigning a particular object into already existing groups
- ☐ clustering is dividing the objects into groups

Which one of the following statements about the K-means clustering is incorrect? * 1 point

- ○ The goal of the k-means clustering is to partition (n) observation into (k) clusters
- ○ K-means clustering can be defined as the method of quantization
- ○ All of the options given
- ◉ The nearest neighbor is the same as the K-means

Which clustering technique requires a merging approach? * 1 point

- ○ Partitional
- ◉ Hierarchical
- ○ DBSCAN
- ○ CLIQUE

Which among the following is not a problem in K-Means Clustering? * 1 point

- ○ different size clusters
- ○ different Density clusters
- ◉ different non globular shapes
- ○ None of the options given

Which is NOT a Grid based clustering algorithm? * 1 point

- ○ CLIQUE
- ◉ GRIDCUS
- ○ Sub space Algorithm
- ○ MAFIA

A ----------cluster is a set of points such that any point in a cluster is closer (or more similar) to every other point in the cluster than to any point not in the cluster. * 1 point

- ◉ Well separated cluster
- ○ Center based Cluster
- ○ Contiguous Cluster
- ○ Density based cluster

Sum of the squared error is known as ---------- * 1 point

- ○ Accuracy
- ○ Scatter
- ○ cohesion
- ◉ None of the given options

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