Clustering
Graded Quiz • 10 min

Due Jul 12, 11:59 PM PDT

k-Means Clustering

Hierarchical Clustering

Density-based Clustering

Quiz: Clustering

✓ **Quiz:** Clustering
5 questions

QUIZ • 10 MIN

Clustering
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TOTAL POINTS 15

1. Which statement is **NOT TRUE** about k-means clustering?   3 points

    ○ k-means divides the data into non-overlapping clusters without any cluster-internal structure.

    ○ The objective ✓ **Submit your assignment** lusters in such a way that similar samples go into a cluster, and dissimilar
      samples fall into different clusters.PDT   **ATTEMPTS** 3 every 8 hours   **Try again**

    ⊙ As k-means is an iterative algorithm, it guarantees that it will always converge to the global optimum.

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    TO PASS 80% or higher   100%
2. Which of the following are characteristics of DBSCAN? Select all that apply.   3 points   We keep your highest score

    ☑ DBSCAN can find arbitrarily shaped clusters.

    ☑ DBSCAN can find a cluster completely surrounded by a different cluster.   👍 👎 🚩

    ☑ DBSCAN has a notion of noise, and is robust to outliers.

    ☑ DBSCAN does not require one to specify the number of clusters such as k in k-means

3. Which of the following is an application of clustering?   3 points

    ○ Customer churn prediction

    ○ Price estimation

    ⊙ Customer segmentation

    ○ Sales prediction

4. Which approach can be used to calculate dissimilarity of objects in clustering?   3 points

    ○ Minkowski distance

    ○ Euclidian distance

    ○ Cosine similarity

    ⊙ All of the above

5. How is a center point (centroid) picked for each cluster in k-means?   3 points

    ☑ We can randomly choose some observations out of the data set and use these observations as the initial
      means.

    ☑ We can create some random points as centroids of the clusters.

    ☐ We can select it through correlation analysis.

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