

✔ Congratulations! You passed!

Grade received 100% To pass 66% or higher

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1. Which of the following is an application of clustering?

1 / 1 point

- ☐ Price estimation
- ☒ Customer segmentation
- ☐ Customer churn prediction
- ☐ Sales prediction

✔ Correct

Correct! Clustering can help partition individuals into groups with similar characteristics.

2. Which approach can be used to calculate dissimilarity of objects in clustering?

1 / 1 point

- ☐ Cosine similarity
- ☐ Minkowski distance
- ☐ Euclidian distance
- ☒ All of the above

✔ Correct

Correct! All of the approaches are valid approaches to calculate dissimilarity.

3. How is a center point (centroid) picked for each cluster in k-means upon initialization? (select two)

1 / 1 point

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

✔ Correct

Correct! These centroids will be updated based on the clusters formed at each iteration.

- ☐ We select the k points closest to the mean/median of the entire dataset.
- ☐ We can select it through correlation analysis.

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

✔ Correct

Correct! We can randomly place k centroids, one for each cluster. Each data point is then assigned to its closest centroid.