

Module 2 Graded Quiz - KNN

[← Back](#)

Graded Assignment • 24 min



Due Sep 26, 11:59 PM +07

Your grade: 87.50%

Your latest: **87.50%** • Your highest: **87.50%**

To pass you need at least 62%. We keep your highest score.

Next item →

1. Which one of the following statements is true regarding K Nearest Neighbors?

1 / 1 point

- ☐ For high dimensional data, the best distance measure to use for KNN is the Euclidean distance.
- ☐ The distance between two data points is independent of the scale of their features.
- ☒ K Nearest Neighbors (KNN) assumes that points which are close together are similar.
- ☐ The Manhattan distance between two data points is the square root of the sum of the squares of the differences between the individual feature values of the data points.

Correct

Correct. The distance between two given points is the similarity measure in the KNN model, where close points are thought to be similar.

2. Which one of the following statements is most accurate?

1 / 1 point

- ☐ Linear regression needs to remember the entire training dataset in order to make a prediction for a new data sample.
- ☒ K nearest neighbors (KNN) needs to remember the entire training dataset in order to classify a new data sample.
- ☐ KNN determines which points are closest to a given data point, so it doesn't take long to actually perform prediction.