

1. *What is the other name we can give to the L2 distance?*

1 / 1 point

- ☐ Manhattan Distance
- ☐ Mahalanobis Distance
- ☐ Hamming Distance
- ☒ Euclidean Distance

✓ **Correct**

Correct! You can find more information in the video Distance Metrics: Euclidean and Manhattan Distance.

2. *Which of the following statements is a business case for the use of the Manhattan distance (L1)?*

1 / 1 point

- ☒ We use it in business cases where there is very high dimensionality.
- ☐ We use it in business cases where the dimensionality is unknown.
- ☐ We use it in business cases with outliers.
- ☐ We use it in business cases where there is low dimensionality.

✓ **Correct**

Correct! high dimensionality often leads to difficulty in distinguishing distances between one point and the other, the L1 score does a good job distinguishing different distances, once we move into a higher dimensional space You can find more information in the video Distance Metrics: Euclidean and Manhattan Distance.

3. *What is the key feature for the Cosine Distance?*

1 / 1 point

- ☒ The Cosine Distance, which takes into account the angle between 2 points.
- ☐ It is sensitive to the size of the data set.
- ☐ The size of the curve.
- ☐ It is not sensitive to the size of the data set.

✓ **Correct**

Correct! This metric gives us the cosine of the angle between vectors, defined by each point. You can find more information in the video Distance Metrics: Cosine and Jaccard Distance.

4. *The following statement is an example of a business case where we can use the Cosine Distance?*

1 / 1 point

- ☒ Cosine is better for data such as text where location of occurrence is less important.
- ☐ Cosine distance is more sensitive to the curse of dimensionality
- ☐ Cosine is useful for coordinate based measurements.
- ☐ Cosine distance is less sensitive to the curse of dimensionality

✓ **Correct**

Correct! You can find more information in the video Distance Metrics: Cosine and Jaccard Distance.

5. *Which distance metric is useful when we have text documents and we want to group similar topics together?*

1 / 1 point

- ☐ Euclidean
- ☐ Manhattan Distance
- ☐ Mahalanobis Distance
- ☒ Jaccard

✓ **Correct**

Correct! You can find more information in the video Distance Metrics: Cosine and Jaccard Distance.