

# Ungraded: Distance Metrics

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Practice Assignment • 10 min

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Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 66%. We keep your highest score.

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1. What is the other name we can give to the L1 distance?

1 / 1 point

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

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

2. What is the key feature for the Jaccard Distance?

1 / 1 point

- ☒ It looks at the difference and similarities for sets of values.
- ☐ It is obtained by adding up the absolute value of each term.
- ☐ It describes distance by squaring each term, adding and squaring them.
- ☐ It takes into account the angle between 2 points.

Correct! This is observed by calculating the intersection between two sets.

3. What is an advantage of the L1 distance over L2?

1 / 1 point

- ☐ It's useful for coordinate based measurements.
- ☐ It shows the difference between sets of values.
- ☐ It's better for data where location of occurrence is less important.
- ☒ It can better handle high dimensional data.

Correct! It's better able to distinguish different distances because it will always be larger than L2 score.

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# Graded: Module 2 Quiz

Your grade: 80%

Your latest: 80% • Your highest: 80% • To pass you need at least 60%. We keep your highest score.

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

1 / 1 point

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

- ☐ 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 very high dimensionality.
- ☐ We use it in business cases where there is low dimensionality.

✘ Incorrect

Incorrect. Please review the video Distance Metrics: Euclidean and Manhattan Distance.

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

1 / 1 point

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

✔ Correct

Correct! This metric gives us the cosine of the angle between vectors, define 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 useful for coordinate based measurements.
- ☐ Cosine distance is less sensitive to the curse of dimensionality
- ☐ Cosine distance is more sensitive to the curse of dimensionality
- ☒ Cosine is better for data such as text where location of occurrence is less important.

✔ 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

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

✔ Correct

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