

Feature Engineering quiz

7 out of 7 correct

1. Which of the following encoding techniques is used for categorical variables with no inherent ordering?

- ☐ Ordinal Encoding
- ☒ Label Encoding
- ☐ Target Guided Ordinal Encoding
- ☐ None of the above

Explanation: Label Encoding is used for categorical variables with no inherent ordering, where each unique category is assigned a unique integer value.

2. Which encoding technique is used when there is a natural ordering between the categories of a categorical variable?

- ☒ Ordinal Encoding
- ☐ Label Encoding
- ☐ Target Guided Ordinal Encoding
- ☐ None of the above

Explanation: Ordinal Encoding is used for categorical variables with a natural ordering between the categories, where the categories are assigned integer values according to their order.

3. Covariance is a measure of:

- ☐ The strength of the linear relationship between two variables



- ☐ The degree of association between two variables
- ☐ The direction of the relationship between two variables
- ☒ All of the above

Explanation: Covariance measures both the strength and direction of the linear relationship between two variables, and is a measure of the degree of association between them.

4. Correlation check is used to:

- ☐ Determine the strength of the linear relationship between two variables
- ☐ Determine the direction of the relationship between two variables
- ☐ Determine the degree of association between two variables
- ☒ All of the above

Explanation: Correlation check is used to determine both the strength and direction of the linear relationship between two variables, and is a measure of the degree of association between them.

5. A dataset contains a categorical variable with no natural ordering. Which encoding technique would be most appropriate for this variable?

- ☐ Ordinal Encoding
- ☒ Label Encoding
- ☐ Target Guided Ordinal Encoding
- ☐ Covariance

Explanation: Label Encoding is most appropriate for a categorical variable with no natural ordering, as each unique category can be assigned a unique integer value.

6. A dataset contains a categorical variable that is strongly associated with the target variable. Which encoding technique would be most appropriate for this variable?

- ☐ Ordinal Encoding
- ☐ Label Encoding
- ☒ Target Guided Ordinal Encoding
- ☐ Covariance

Explanation: Target Guided Ordinal Encoding would be most appropriate for a categorical variable that is strongly associated with the target variable, as it assigns ordinal values to categories based on the mean of the target variable for each category.

7. A data scientist is performing feature engineering on a dataset with categorical variables. Which technique can be used to check the degree of association between two categorical variables?

- ☐ Ordinal Encoding
- ☐ Label Encoding
- ☒ Correlation Check
- ☐ Target Guided Ordinal Encoding

Explanation: Correlation check can be used to determine the degree of association between two variables, whether they are continuous or categorical.

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