



Knowledge Check

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1

What is the purpose of feature engineering in machine learning?

- A. To increase the complexity of models
- B. To reduce the size of the dataset
- C. To improve the performance of machine learning models by modifying or creating features
- D. To visualize data patterns



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The correct answer is **C**

Feature engineering involves selecting, modifying, or creating new features from raw data to enhance machine learning model performance by making the data format more suitable for analysis.

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2

Which transformation is commonly used to stabilize variance and handle skewed distributions?

- A. Log transformation
- B. Min-max scaling
- C. Box-cox transformation
- D. Square root transformation



Knowledge
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2

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The correct answer is **D**

Square root transformation is effective in stabilizing variance and managing skewed distributions, similar to log transformation.



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3

What is the purpose of min-max scaling in feature engineering?

- A. To standardize the range of features in a dataset
- B. To transform categorical variables into numerical
- C. To split a dataset into groups based on criteria
- D. To convert input data into fixed-length hash codes



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The correct answer is **A**

Min-max scaling is a feature scaling technique used to standardize or normalize the range of independent variables or features in a dataset.



Thank You