



1

Which of the following is an advantage of feature selection?

- A. It reduces the calculation time required to obtain the model's predictions.
- B. It prevents overfitting by removing unimportant variables and focusing on the key ones.
- C. It eliminates irrelevant information, which helps to enhance the model's forecast accuracy.
- D. All of the above



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The correct answer is

D

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2

Which technique is used for data reduction that enables researchers to investigate concepts that cannot be measured directly?

- A. Maximum likelihood
- B. Principal component analysis
- C. Cluster analysis
- D. Factor analysis



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Factor analysis is a powerful data reduction technique that enables researchers to investigate concepts that cannot easily be measured directly.



3

What is an eigenvector?

- A. The proportion of the variance explained in the matrix
- B. A higher-order dimension that subsumes all of the lower-order errors
- C. A higher-order dimension that subsumes similar lower-order dimensions
- D. A higher-order dimension that subsumes all lower-order dimensions



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The correct answer is **C**



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