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*Data-Science-Fundamentals
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Questions & Answers PDF

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Question: 1

What are the benefits of using ensemble methods in machine learning?

(Choose Three)

Response:

- A. Reducing variance
- B. Reducing bias
- C. Improving prediction confidence
- D. Simplifying models

Answer: A,B,C

Question: 2

In data visualization, what does a 'heatmap' typically represent?

Response:

- A. Geographical distributions
- B. Trends over time
- C. Relationships between two variables
- D. Data density through variations in coloring

Answer: D

Question: 3

Which SQL statement is used to remove duplicates from a result set?

Response:

- A. SELECT DISTINCT
- B. REMOVE DUPLICATES
- C. DELETE
- D. DROP DUPLICATES

Answer: A

Question: 4

In the context of data science, what is 'model validation'?

Response:

- A. Documenting the steps involved in building the model
- B. The process of ensuring a model operates within certain parameters
- C. Testing a model on new data to check its performance
- D. Integrating the model with existing databases

Answer: C

Question: 5

What is the main purpose of data lifecycle management (DLM)?

Response:

- A. To define processes for resolving data breaches
- B. To manage data from creation to deletion
- C. To increase data transparency only
- D. To ensure data is never archived

Answer: B

Question: 6

Which algorithms are typically used for unsupervised learning tasks?

(Choose Two)

Response:

- A. Decision Trees
- B. K-means Clustering
- C. Support Vector Machines
- D. Principal Component Analysis

Answer: B,D

Question: 7

CRISP-DM stands for what in the context of a data science project?

Response:

- A. Cross-Industry Standard Process for Data Management
- B. Cross-Industry Standard Practice for Data Mining
- C. Cross-Industry Standard Process for Data Mining
- D. Cross-Industry Systematic Protocol for Data Management

Answer: C

Question: 8

Which concept is primarily concerned with the graphical representation of data?

Response:

- A. Data manipulation
- B. Data visualization
- C. Data extraction
- D. Data encryption

Answer: B

Question: 9

Which of the following is a common method to ensure data security in management practices?

Response:

- A. Regular data audits
- B. Frequent data duplication
- C. Periodic system shutdowns
- D. Reduced data access speeds

Answer: A

Question: 10

Which scaling techniques are appropriate for preparing features in data preprocessing?

(Choose Two)

Response:

- A. Min-Max Scaling
- B. One-Hot Encoding
- C. Standardization

D. Tokenization

Answer: A,C



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