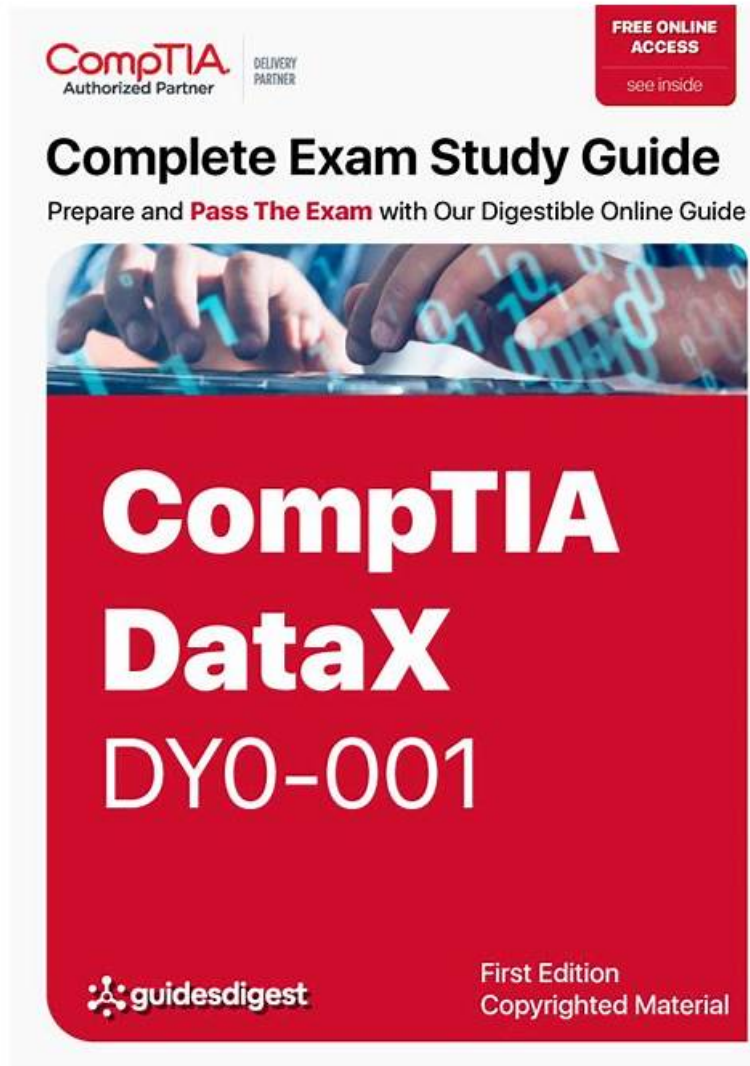


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CompTIA DataAI Certification Exam Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which of the following best describes the minimization of the residual term in a ridge linear regression?

- A. 0
- B. $|e|$
- C. e
- D. e^2

Answer: D

Explanation:

Ridge regression extends ordinary least squares by adding an L2 penalty on the coefficients, but it still minimizes the sum of squared residuals (e^2) as its loss term.

NEW QUESTION # 50

Which of the following compute delivery models allows packaging of only critical dependencies while developing a reusable asset?

- A. Thin clients
- B. Containers
- C. Edge devices
- D. Virtual machines

Answer: B

Explanation:

Containers encapsulate just the application and its critical dependencies on a lightweight runtime, making the resulting asset portable and reusable without bundling an entire operating system.

NEW QUESTION # 51

The term "greedy algorithms" refers to machine-learning algorithms that:

- A. apply a theoretical model to the distribution of the data.
- B. make the locally optimal decision.
- C. update priors as more data is seen.
- D. examine every node of a tree before making a decision.

Answer: B

Explanation:

Greedy algorithms make decisions based on what appears to be the best (most optimal) choice at that current moment - i.e., a locally optimal decision - without regard to whether this choice will yield the globally optimal solution.

Examples in machine learning:

* Decision Tree algorithms (e.g., CART) use greedy approaches by selecting the best split at each node based on information gain or Gini index.

Why the other options are incorrect:

* A: This refers to Bayesian updating, not greedy behavior.

* B: That describes exhaustive search, not greediness.

* C: That aligns more with probabilistic or generative models, not greedy strategies.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 4.2 (Model Selection Methods): "Greedy algorithms make locally optimal decisions at each step. Decision trees, for instance, use greedy splitting based on current best criteria."

* Elements of Statistical Learning, Chapter 9: "Greedy methods make stepwise decisions that maximize immediate gains - they are

fast, but may miss the global optimum."

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NEW QUESTION # 52

Which of the following best describes the minimization of the residual term in a LASSO linear regression?

- A. 0
- B. $|e|$
- C. e
- D. e^2

Answer: D

Explanation:

LASSO (Least Absolute Shrinkage and Selection Operator) regression minimizes the squared residuals (e^2), just like OLS, but adds an L1 penalty to encourage sparsity in the coefficients. Thus, the residual component minimized is still the sum of squared errors.

Why the other options are incorrect:

- * A: $|e|$ is absolute error, not used in standard LASSO objective.
- * B: e is the error term, but minimization applies to its squared version.
- * C: Minimizing to exactly 0 is idealistic but not realistic.

Official References:

- * CompTIA DataX (DY0-001) Study Guide - Section 3.3: "LASSO minimizes squared errors with an additional L1 regularization term."
- * Elements of Statistical Learning, Chapter 6: "LASSO regression uses the same residual sum of squares (e^2) as OLS for error measurement, with an added constraint."

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NEW QUESTION # 53

A data scientist is standardizing a large data set that contains website addresses. A specific string inside some of the web addresses needs to be extracted. Which of the following is the best method for extracting the desired string from the text data?

- A. Named-entity recognition
- B. Large language model
- C. Find and replace
- D. Regular expressions

Answer: D

Explanation:

Regular expressions (regex) are powerful tools for pattern matching in text. They are ideal for extracting substrings, such as domains, parameters, or specific keywords from URLs or structured text fields.

Why the other options are incorrect:

- * B: NER is used to extract named entities (like names, places) - not substrings in structured text.
- * C: LLMs are overkill and not efficient for simple string matching tasks.
- * D: Find and replace is manual and non-scalable for large data sets.

Official References:

- * CompTIA DataX (DY0-001) Official Study Guide - Section 6.3: "Regular expressions provide a flexible method to extract patterns and substrings in structured or semi-structured text."
- * Data Cleaning Handbook, Chapter 3: "Regex is the most effective tool for parsing text formats like URLs, emails, or custom tags."

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NEW QUESTION # 54

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