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CompTIA DataX Certification Exam Sample Questions (Q80-Q85):

NEW QUESTION # 80

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

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

Answer: A

Explanation:

In ridge regression, the model minimizes the sum of squared residuals (errors), with an added penalty term on the magnitude of coefficients (L2 regularization). The residual component specifically is represented by:

e^2 (squared error)

Thus, ridge regression minimizes:

Minimize: $\sum (y_i - \hat{y}_i)^2 + \lambda \sum (\beta_j^2)$

Why the other options are incorrect:

* A: $|e|$ corresponds to L1 loss (used in Lasso).

* B: e represents the error term itself, not its minimized quantity.

* D: Zero error is ideal but practically unachievable and not the actual loss function being minimized.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 1.4: "Ridge regression minimizes the squared error term with an L2 penalty."

* Introduction to Statistical Learning, Chapter 6: "Ridge regression uses squared error loss, which emphasizes larger deviations more heavily than linear loss."

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NEW QUESTION # 81

A data scientist is merging two tables. Table 1 contains employee IDs and roles. Table 2 contains employee IDs and team assignments. Which of the following is the best technique to combine these data sets?

- A. outer join between Table 1 and Table 2
- B. left join on Table 1 with Table 2
- C. inner join between Table 1 and Table 2
- D. right join on Table 1 with Table 2

Answer: C

Explanation:

An inner join returns only those records that have matching keys (employee IDs in this case) in both tables.

Since each table provides a different attribute for the same entity (employee), an inner join is the most efficient and accurate method when focusing on employees present in both tables.

Why the other options are less ideal:

* B & C: Left or right joins would include unmatched data, which may lead to nulls.

* D: An outer join brings in all records from both tables and fills nulls where no matches exist, which may introduce irrelevant or incomplete entries.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 5.2: "Inner joins are most appropriate when combining datasets with matching keys to retain only relevant, intersecting records."

* SQL for Data Analysts, Chapter 3: "Use inner joins when combining tables on a common key to include only matched data for analysis."

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NEW QUESTION # 82

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

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

Answer: A

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 # 83

A data scientist trained a model for departments to share. The departments must access the model using HTTP requests. Which of the following approaches is appropriate?

- A. Utilize distributed computing.
- B. Deploy containers.
- C. Create an endpoint.
- D. Use the File Transfer Protocol.

Answer: C

Explanation:

Creating an endpoint allows other systems or departments to access the trained model via HTTP requests.

This typically involves exposing the model as a RESTful API, allowing it to be queried by web-based systems.

Why the other options are incorrect:

- * A: Distributed computing refers to computation, not access over HTTP.
- * B: Containers are useful for deployment, but the endpoint enables access.
- * D: FTP is used for file transfer, not model inference via HTTP.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4: "Endpoints are used to expose models to external consumers over HTTP protocols, often using REST APIs."

* ML Deployment Best Practices, Chapter 3: "RESTful endpoints provide real-time access to model predictions and are key for multi-team collaboration."

NEW QUESTION # 84

An analyst is examining data from an array of temperature sensors and sees that one sensor consistently returns values that are much higher than the values from the other sensors. Which of the following terms best describes this type of error?

- A. Systematic
- B. Synthetic
- C. Idiosyncratic
- D. Heteroskedastic

Answer: A

Explanation:

A systematic error is a consistent, repeatable error caused by faulty equipment or flawed measurement techniques. Since one sensor consistently over-reports values, this is a classic case of systematic error.

Why the other options are incorrect:

- * A: Synthetic data is artificially generated - unrelated to sensor malfunction.
- * C: Heteroskedasticity refers to non-constant variance - not consistent bias.
- * D: Idiosyncratic errors are random and unpredictable - not consistent.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 1.4: "Systematic errors arise from consistent biases in measurement devices or methods, requiring calibration or correction."

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NEW QUESTION # 85

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