DY0-001 Online Prüfungen - DY0-001 Lerntipps

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>> DY0-001 Online Prüfungen <<

DY0-001 Fragen & Antworten & DY0-001 Studienführer & DY0-001 Prüfungsvorbereitung

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CompTIA DataX Certification Exam DY0-001 Prüfungsfragen mit Lösungen

(Q36-Q41):

36. Frage
A data analyst wants to use compression on an analyzed data set and send it to a new destination for further processing. Which of the following issues will most likely occur?

- A. Server CPU usage will be too high.
- B. Operating system support will be missing.
- C. Library dependency will be missing.
- D. Server memory usage will be too high.

Antwort: A

Begründung:
Compression is a CPU-intensive process because it requires encoding data into a smaller format, often involving complex algorithms. While memory use is usually moderate, CPU usage can spike significantly, especially during real-time compression or large dataset processing.
Why the other options are incorrect:
* A: Library issues are possible but not the most likely issue in compression.
* C: Most operating systems support common compression formats (e.g., .zip, .gz).
* D: Memory usage is generally lower than CPU usage during compression.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4:"Compression is compute-intensive and may result in increased CPU utilization, particularly on shared servers or during large batch processes."
* Cloud Data Engineering Guide, Chapter 9:"High CPU usage is a common bottleneck in data compression and decompression processes, especially at scale."
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37. Frage
A model's results show increasing explanatory value as additional independent variables are added to the model. Which of the following is the most appropriate statistic?

- A. p value
- B. Adjusted R^2
- C. #²
- D. R^2

Antwort: B

Begründung:
Adjusted R^2 is specifically designed to evaluate the goodness-of-fit of a regression model while adjusting for the number of predictors. Unlike R^2, which always increases with more variables, adjusted R^2 penalizes for adding irrelevant predictors and provides a more accurate measure of model quality.
Why the other options are incorrect:
* B: p-values assess significance of individual predictors, not overall model performance.
* C: #² tests are used in categorical data, not regression fit.
* D: R^2 may be misleading when more variables are added - it always increases or stays the same.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 3.2:"Adjusted R^2 accounts for the number of predictors, making it suitable for comparing models with different numbers of variables."
* Applied Regression Analysis, Chapter 5:"Adjusted R^2 is used to judge whether adding predictors actually improves the model beyond overfitting."
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38. Frage
Which of the following best describes the minimization of the residual term in a ridge linear regression?

- A. e^2
- B. |e|

- C. 0
- D. e

Antwort: A

Begründung:
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: #(y# # ##)² + ##(#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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39. Frage
Which of the following measures would a data scientist most likely use to calculate the similarity of two text strings?

- A. Edit distance
- B. k-nearest neighbors
- C. String indexing
- D. Word cloud

Antwort: A

Begründung:
Edit distance (also known as Levenshtein distance) measures how many single-character edits (insertions, deletions, or substitutions) are needed to transform one string into another. It's a common metric for assessing string similarity, especially in natural language processing (NLP) tasks.
Why the other options are incorrect:
* A: Word clouds visualize word frequency, not similarity.
* C: String indexing is a method for referencing string positions, not comparison.
* D: k-NN is a classification algorithm, not a string similarity measure.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 6.3:"Edit distance is a key similarity metric in text comparison tasks, particularly in cleaning or matching string records."
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40. Frage
Under perfect conditions, E. coli bacteria would cover the entire earth in a matter of days. Which of the following types of models is the best for explaining this type of growth?

- A. Linear
- B. Logarithmic
- C. Exponential
- D. Polynomial

Antwort: C

Begründung:
Bacterial growth under ideal conditions follows exponential behavior: the population doubles at regular intervals. This results in a rapid increase that aligns with the formula: N(t) = N#e

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