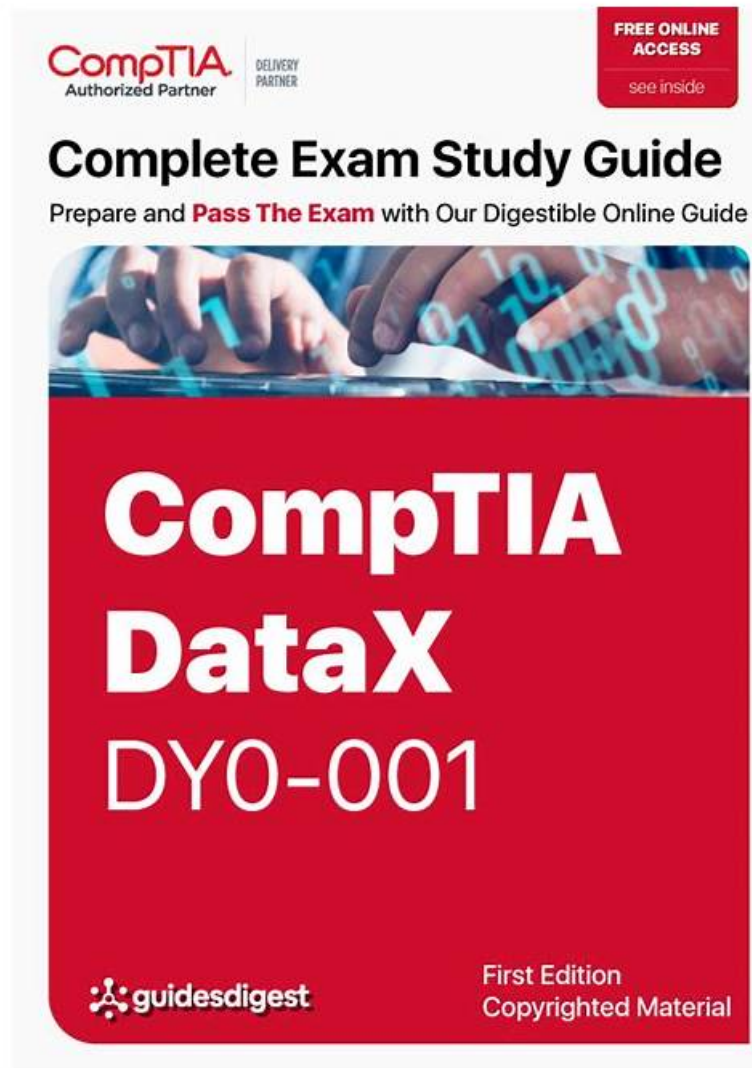


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CompTIA DataX Certification Exam Sample Questions (Q26-Q31):

NEW QUESTION # 26

A data scientist has built an image recognition model that distinguishes cars from trucks. The data scientist now wants to measure the rate at which the model correctly identifies a car as a car versus when it misidentifies a truck as a car. Which of the following would best convey this information?

- A. Confusion matrix
- B. Correlation plot
- C. AUC/ROC curve
- D. Box plot

Answer: A

Explanation:

A confusion matrix gives a detailed view of a classification model's performance, including true positives, false positives, true negatives, and false negatives. It's the best tool for examining model accuracy and misclassification between specific classes - like mislabeling trucks as cars.

Why the other options are incorrect:

- * B: AUC/ROC gives a broader performance summary but not individual class misclassifications.
- * C: Box plots show distributions, not classification accuracy.
- * D: Correlation plots show relationships between variables - not confusion results.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 4.3: "Confusion matrices enable detailed analysis of classification performance and misclassification rates."

* Machine Learning Textbook, Chapter 5: "For evaluating how models classify specific classes, confusion matrices are the most direct and interpretable tool."

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NEW QUESTION # 27

Which of the following is a key difference between KNN and k-means machine-learning techniques?

- A. KNN performs better with longitudinal data sets, while k-means performs better with survey data sets.
- B. KNN operates exclusively on continuous data, while k-means can work with both continuous and categorical data.
- C. KNN is used for finding centroids, while k-means is used for finding nearest neighbors.
- D. KNN is used for classification, while k-means is used for clustering.

Answer: D

Explanation:

K-Nearest Neighbors (KNN) is a supervised machine learning algorithm used primarily for classification and regression. It labels a new instance by majority vote (or averaging, in regression) of its k-nearest labeled neighbors.

k-Means is an unsupervised learning algorithm used for clustering. It partitions unlabeled data into k groups based on feature similarity, using centroids.

Thus, the key difference is in their purpose:

- * KNN # Classification (Supervised)
- * K-Means # Clustering (Unsupervised)

Why the other options are incorrect:

- * A: Both can technically operate on continuous or categorical data (with preprocessing).
- * B: This is not a meaningful or standardized distinction.
- * C: This reverses the actual roles. k-means finds centroids; KNN finds nearest neighbors.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 4.1 (Classification vs. Clustering): "KNN is a supervised learning algorithm for classification tasks. K-means is an unsupervised clustering technique that groups data by proximity to centroids."

* Data Science Handbook, Chapter 5: "One key distinction: KNN uses labeled data to classify or regress; k-means uses unlabeled

data to identify groupings."

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NEW QUESTION # 28

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

Answer: C

Explanation:

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: $N(t) = N \cdot e^{kt}$

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