Quiz 2026 CompTIA DY0-001: CompTIA DataX Certification Exam Updated Test Cram Review

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CompTIA DataX Certification Exam Sample Questions (Q71-Q76):

NEW QUESTION # 71
Which of the following is best solved with graph theory?

- A. Fraud detection
- B. Traveling salesman
- C. One-armed bandit
- D. Optical character recognition

Answer: B

Explanation:
The Traveling Salesman Problem (TSP) is a classic example in graph theory. It involves finding the shortest path that visits a set of nodes (cities) and returns to the starting point. Graph theory is used to model nodes (cities) and edges (paths between cities).
Why other options are incorrect:
* A: OCR is a computer vision problem - best handled with CNNs or ML image models.
* C: Fraud detection can involve graph-based approaches but is typically solved using anomaly detection or classification.
* D: One-armed bandit is a reinforcement learning problem - not related to graph theory.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 3.4:"Graph theory is frequently used in routing and path optimization problems such as the Traveling Salesman."
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NEW QUESTION # 72
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. AUC/ROC curve
- B. Confusion matrix
- C. Correlation plot
- D. Box plot

Answer: B

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 # 73
A data scientist is building a proof of concept for a commercialized machine-learning model. Which of the following is the best starting point?

- A. Model performance evaluation
- B. Hyperparameter tuning
- C. Model selection
- D. Literature review

Answer: C

Explanation:
In the proof-of-concept phase, the first practical step is model selection - identifying which modeling technique is most appropriate based on the nature of the problem, data, and business goal. Literature reviews are helpful but usually precede model experimentation.
Why the other options are incorrect:
* A: Literature review informs planning but isn't the first hands-on step.
* B: Performance evaluation comes after models are built.
* C: Hyperparameter tuning applies after a model is chosen.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 5.1:"Model selection is a critical step during early prototyping when evaluating different algorithms for feasibility."
* CRISP-DM Framework - Modeling Phase:"Selecting candidate models is the first step in model development after understanding the data."

NEW QUESTION # 74
A data scientist wants to predict a person's travel destination. The options are:
* Branson, Missouri, United States
* Mount Kilimanjaro, Tanzania
* Disneyland Paris, Paris, France
* Sydney Opera House, Sydney, Australia
Which of the following models would best fit this use case?

- A. Principal component analysis
- B. Linear discriminant analysis
- C. Latent semantic analysis
- D. k-means modeling

Answer: B

Explanation:
Linear Discriminant Analysis (LDA) is a supervised classification method used to predict a categorical target (such as travel destination) based on multiple input features. It models decision boundaries between classes - which is appropriate when predicting a fixed set of destinations.
Why the other options are incorrect:
* B: k-means is unsupervised and doesn't use labeled output like travel destination.
* C: Latent Semantic Analysis is used for extracting relationships from textual data - not categorical prediction.
* D: PCA reduces dimensionality but doesn't classify.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 4.1:"Linear Discriminant Analysis is used when the response variable is categorical and the objective is classification."
* Classification Techniques Guide, Chapter 7:"LDA excels in multi-class prediction when the input data is continuous and the output is a known category."
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NEW QUESTION # 75
A data scientist observes findings that indicate that as electrical grids in a country become more and more connected over time, the frequency of brownouts and blackouts in total decrease, and the frequency of major brownouts and blackouts increase. Which of the following distribution metrics could best be identified?

- A. Normality
- B. Kurtosis
- C. Scale axis magnitudes
- D. Skewness

Answer: B

Explanation:

Kurtosis is a statistical measure that describes the "tailedness" or extremity of values in a distribution. The observation that smaller events decrease while extreme events increase indicates a rise in heavy tails - a textbook sign of increasing kurtosis. This reflects a distribution becoming more prone to extreme values (e.g., more impactful blackouts).

Why the other options are incorrect:

* A: "Scale axis magnitudes" is not a statistical metric but refers to plotting.
* C: Skewness measures asymmetry, not the frequency of extreme values.
* D: Normality checks whether a distribution follows the normal distribution, not its tail behavior.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 1.3:"Kurtosis measures the presence of outliers and extreme values in a distribution - higher kurtosis suggests more frequent extreme events."
* Applied Statistical Analysis, Chapter 4:"Kurtosis provides insight into the likelihood of extreme deviations and is useful in risk and reliability analysis."

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NEW QUESTION # 76

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