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CompTIA DataAI Certification Exam Sample Questions (Q19-Q24):

NEW QUESTION # 19

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

Answer: D

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 # 20

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

Answer: D

Explanation:

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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NEW QUESTION # 21

Which of the following is the layer that is responsible for the depth in deep learning?

- A. Convolution
- B. Pooling
- C. Dropout
- **D. Hidden**

Answer: D

NEW QUESTION # 22

Which of the following distributions would be best to use for hypothesis testing on a data set with 20 observations?

- **A. Student's t-**
- B. Normal
- C. Uniform
- D. Power law

Answer: A

Explanation:

With only 20 observations and an unknown population variance, the t-distribution (with $n - 1$ degrees of freedom) properly accounts for the extra uncertainty in the standard error when performing hypothesis tests.

NEW QUESTION # 23

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

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

Answer: B

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 # 24

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