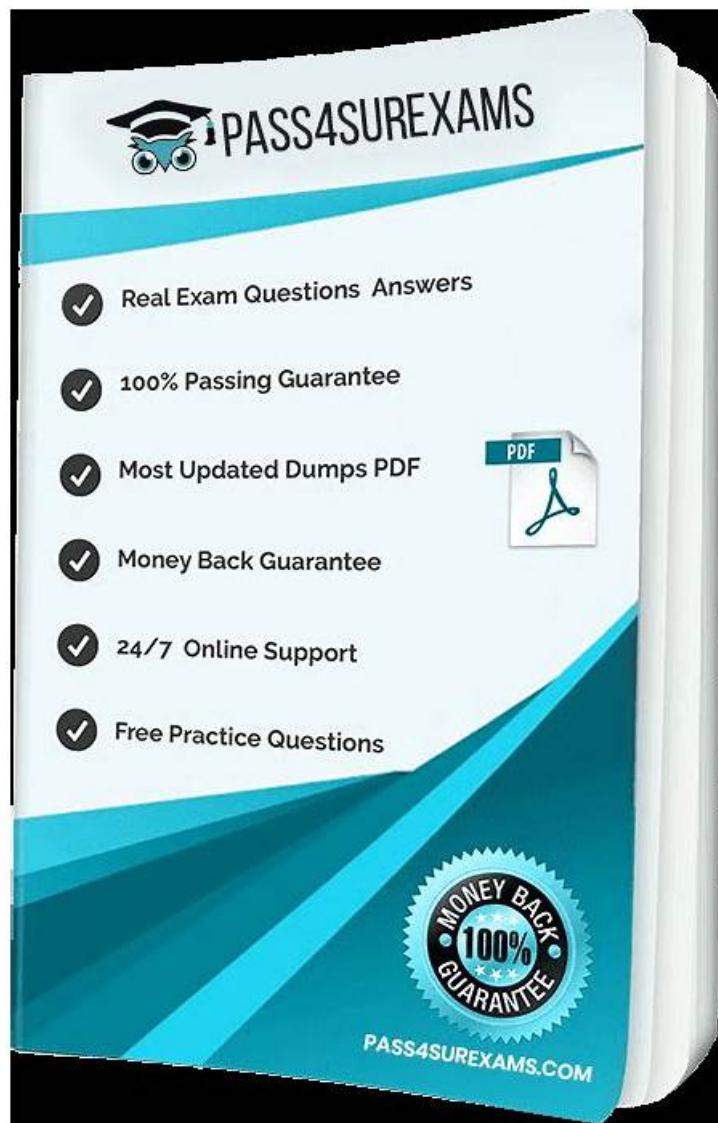


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CompTIA DataX Certification Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

A data scientist is designing a real-time machine-learning model that classifies a user based on initial behavior. The run times of these models are provided in the following table:

Model	Run time	Accuracy
Artificial neural network	12 minutes	95%
Decision trees	10 minutes	92%
Random forest	1 minutes	88%
XGBoost	5 minutes	90%

Which of the following models should the data scientist recommend for deployment?

- A. Decision trees
- B. Artificial neural network
- C. XGBoost**
- D. Random forest

Answer: C

Explanation:

In real-time systems, low latency (short run time) is critical. While the Artificial Neural Network provides the highest accuracy, its 12-minute runtime makes it unsuitable for real-time inference. Random forest is the fastest but offers the lowest accuracy.

XGBoost provides an excellent balance between runtime (5 minutes) and accuracy (90%). It's well-optimized for performance and scalability, and thus is a strong candidate for real-time classification when balancing both efficiency and predictive quality.

Why the other options are less ideal:

- * B: Random forest is faster but significantly less accurate.
- * C: Decision trees have longer run time than XGBoost with only a 2% accuracy improvement.
- * D: Artificial neural network has the highest accuracy but is too slow for real-time applications.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 4.3: "In real-time applications, model selection involves a trade-off between accuracy and inference speed. XGBoost offers competitive accuracy with efficient runtime."

* Machine Learning Systems Design Guide, Chapter 7: "XGBoost is well-suited for real-time systems due to its balance of model complexity and fast prediction times."

NEW QUESTION # 70

Which of the following is best solved with graph theory?

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

Answer: A

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."

NEW QUESTION # 71

Which of the following environmental changes is most likely to resolve a memory constraint error when running a complex model using distributed computing?

- A. Moving model processing to an edge deployment
- B. Converting an on-premises deployment to a containerized deployment
- **C. Adding nodes to a cluster deployment**
- D. Migrating to a cloud deployment

Answer: C

Explanation:

When running a model on a distributed system, encountering memory constraint errors indicates that the current nodes in the cluster do not have enough memory to handle the model. The most scalable and immediate solution is:

Adding Nodes to a Cluster Deployment - This increases the total available memory and compute power. In distributed computing environments like Apache Spark or Hadoop, horizontal scaling via node addition is a standard remedy for resource bottlenecks, including memory limitations.

Why the other options are incorrect:

- * A. Containerizing doesn't inherently solve memory issues unless paired with resource upgrades.
- * B. Cloud migration may offer more resources, but without scaling configuration, memory limits may persist.
- * C. Edge deployment is for low-latency, local processing - often with less memory, not more.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 5.2 (Infrastructure & Scaling): "To resolve memory limitations in distributed systems, scaling out by adding nodes is the most direct and cost- effective method."

* Data Engineering Fundamentals (Cloud/Distributed Systems): "Cluster resource constraints (e.g., memory) can be mitigated by increasing node count, enabling parallel execution and expanded memory pools."

NEW QUESTION # 72

A data scientist is building a model to predict customer credit scores based on information collected from reporting agencies. The model needs to automatically adjust its parameters to adapt to recent changes in the information collected. Which of the following is the best model to use?

- A. Linear discriminant analysis
- B. Decision tree
- **C. XGBoost**
- D. Random forest

Answer: C

Explanation:

XGBoost (Extreme Gradient Boosting) is a high-performance, scalable ensemble algorithm that builds decision trees in sequence and adjusts to errors iteratively. It also supports incremental training, making it adaptive to changing data patterns - ideal for dynamically updated credit information.

Why the other options are incorrect:

- * A: Decision trees are static once trained and don't adapt unless retrained.
- * B: Random forest is an ensemble of trees but lacks the adaptive boosting component.
- * C: LDA is a linear classification technique - not suited for adapting to changing data distributions.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 4.3: "XGBoost is highly efficient and supports iterative learning, making it well-suited for data environments that evolve over time."

* Applied Machine Learning Guide, Chapter 8: "XGBoost adapts to changes by refining errors across iterations, providing robustness in dynamic systems."

NEW QUESTION # 73

A data analyst wants to find the latitude and longitude of a mailing address. Which of the following is the best method to use?

- A. Imputing
- B. One-hot encoding
- C. Geocoding
- D. Binning

Answer: C

Explanation:

Geocoding is the process of converting addresses (like "1600 Amphitheatre Parkway, Mountain View, CA") into geographic coordinates (latitude and longitude), which is essential for spatial data analysis and mapping.

Why other options are incorrect:

- * A: One-hot encoding is for converting categorical variables into binary vectors.
- * B: Binning is for grouping continuous variables into categories.
- * D: Imputing fills in missing data values, unrelated to geographic location retrieval.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 6.3:"Geocoding is a technique to convert textual location data into coordinate-based data for geographic analysis."

NEW QUESTION # 74

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