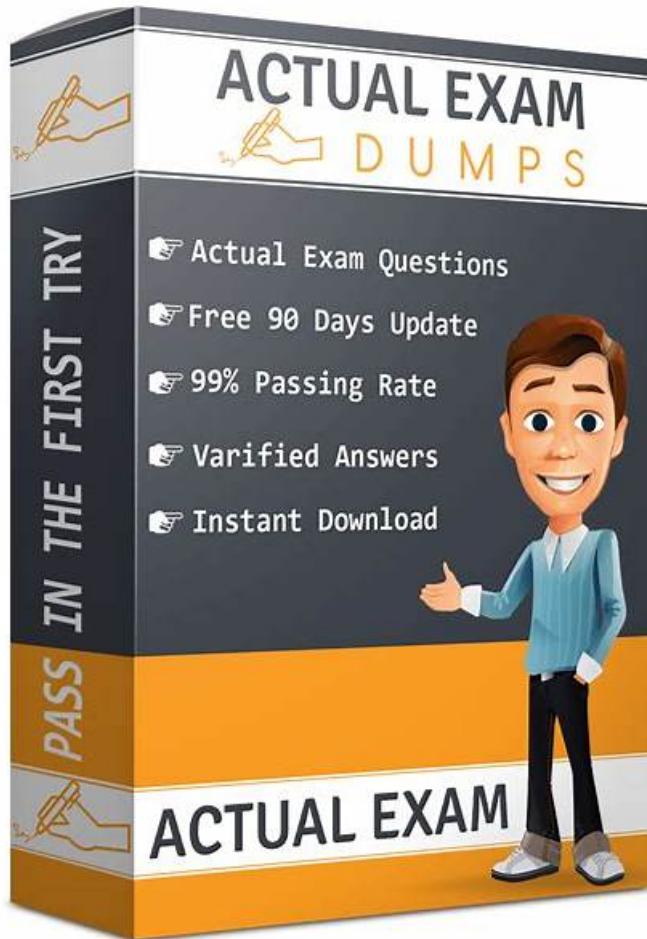


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DASCA Senior Data Scientist Sample Questions (Q10-Q15):

NEW QUESTION # 10

Self-driving car is an example of

- A. Reinforcement learning
- B. All of the above
- C. Unsupervised learning
- D. Supervised learning

Answer: A

Explanation:

Self-driving cars (autonomous vehicles) are an application of Reinforcement Learning (RL) in machine learning. In RL, an agent (car) interacts with an environment (roads, obstacles, traffic) and learns to maximize rewards (e.g., safe driving, efficient navigation).

The system improves performance through trial-and-error learning, guided by reward signals such as staying in a lane or avoiding collisions.

Supervised learning (A): Used in some supporting tasks like image recognition (e.g., identifying stop signs), but not the core paradigm for self-driving.

Unsupervised learning (B): Useful for clustering sensor data, but again not the main paradigm.

Reinforcement learning (C): Correct, since self-driving fundamentally depends on RL decision-making.

Thus, the correct answer is Option C (Reinforcement Learning).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Machine Learning Paradigms: Reinforcement Learning and Autonomous Systems.

NEW QUESTION # 11

Spark is written in:

- A. C
- B. C++
- C. Java
- D. Python
- E. Scala

Answer: E

Explanation:

Apache Spark is an open-source distributed computing framework widely used for big data processing and machine learning pipelines.

The core implementation of Spark is written in Scala (Option A), which runs on the JVM (Java Virtual Machine).

Spark also provides APIs for Java, Python (PySpark), R, and SQL, but its native language is Scala.

Options C (C) and D (C++) are incorrect; Spark is not written in these languages.

Python (Option E) is a supported API, but Spark itself is not written in Python.

Thus, the correct answer is Scala (Option A).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming Tools for Big Data & Distributed Computing.

NEW QUESTION # 12

Maximum Likelihood Estimation (MLE) is a way to frame:

- A. Large class of problems in HDFS
- B. Small class of problems in HDFS
- C. Both A and C
- D. Small class of problems in Data Science

- E. Large class of problems in Data Science

Answer: E

Explanation:

Maximum Likelihood Estimation (MLE) is a statistical method used to estimate the parameters of a model by maximizing the likelihood function - i.e., finding the parameters that make the observed data most probable.

Option A: Correct. MLE provides a framework for a large class of problems in data science, including regression, classification, generative models, and probabilistic inference.

Option B: Incorrect - it applies to many problems, not just a small subset.

Option C & D: Incorrect. HDFS (Hadoop Distributed File System) is a storage technology, unrelated to MLE.

Option E: Incorrect because C is invalid.

Thus, the correct answer is Option A (Large class of problems in Data Science).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Statistical Foundations: Maximum Likelihood Estimation and Inference in Data Science.

NEW QUESTION # 13

Which of the following is TRUE for "By" analysis?

- A. All of the above
- B. "By" analysis is used to create a collaborative technique to drive alignment between the business users and the data scientists to identify and brainstorm variables and metrics that might be better predictors of business performance.
- C. Both B and C
- D. The "By" analysis technique reinforces the process of "thinking like a data scientist."
- E. "By" analysis is a technique by which business subject matter experts (SMEs) and the Data Science team could collaborate to uncover new variables and metrics that might be better predictors of business performance.

Answer: A

Explanation:

"By" analysis is one of the foundational approaches recommended in the DASCA Data Scientist Knowledge Framework for structuring problem-solving in data science. The purpose of "By" analysis is to enable data scientists and business stakeholders to think beyond obvious data correlations and uncover deeper drivers of business outcomes.

At its core, the technique reinforces the discipline of thinking like a data scientist (Option A). This involves reframing business questions into analytical structures and asking "What drives this metric by which factors?" For example, customer churn might be analyzed by demographics, purchase behavior, or service usage. This structured mindset is critical for ensuring scientific rigor in business problem analysis.

In addition, "By" analysis emphasizes collaboration between Subject Matter Experts (SMEs) and Data Science teams (Option B). SMEs bring contextual domain knowledge, while data scientists bring analytical and statistical expertise. Together, they brainstorm possible explanatory variables or metrics that could become strong predictors of business performance.

Furthermore, the process provides a collaborative bridge between business and technical stakeholders (Option C). It ensures that the exploration of data is not isolated in silos but is grounded in both domain insights and advanced analytical methods. This alignment is crucial for building models that are not only technically sound but also relevant and actionable in real-world business contexts.

Since Options A, B, and C are correct and complementary, the best choice is Option E: All of the above.

Reference: DASCA Data Scientist Knowledge Framework (DSKF) - Data Science Process Fundamentals & Collaborative Analysis Techniques (Official DASCA Study & Exam Preparation Guide).

NEW QUESTION # 14

Which of the following is NOT an example of the applications of neural networks?

- A. Image compression
- B. None of the above
- C. Character recognition
- D. Traveling salesman's problem
- E. Stock market prediction

Answer: D

Explanation:

Neural networks have been widely applied in various domains:

Option A (Character recognition): Correct application - neural networks are highly effective for OCR (Optical Character Recognition).

Option B (Stock market prediction): Correct application - neural networks are used to model time-series and nonlinear patterns in finance.

Option D (Image compression): Correct application - neural nets (autoencoders) are used for dimensionality reduction and compression.

Option C (Traveling salesman's problem): NOT a typical neural network application. This is a combinatorial optimization problem usually solved with heuristics, dynamic programming, or optimization algorithms (not standard neural networks).

Thus, the correct answer is Option C (Traveling salesman's problem).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Machine Learning Applications of Neural Networks.

NEW QUESTION # 15

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