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If you want to ace the Senior Data Scientist (SDS) test, the main problem you may face is not finding updated SDS practice questions to crack this test quickly. After examining the situation, the Exam4Tests has come with the idea to provide you with updated and actual Sitecore SDS Exam Dumps so you can pass SDS test on the first attempt.

DASCA Senior Data Scientist Sample Questions (Q27-Q32):

NEW QUESTION # 27

Machine learning can be categorized as:

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

Answer: B

Explanation:

Machine learning (ML) can be broadly divided into three main paradigms:

Supervised Learning (Option A):

Data includes labeled outputs (e.g., classification, regression).

Goal: Learn a mapping from input to output.

Unsupervised Learning (Option B):

Data has no labels.

Goal: Discover hidden patterns (e.g., clustering, dimensionality reduction).

Reinforcement Learning (Option C):

Agent interacts with an environment and learns by maximizing cumulative rewards through trial and error.

Used in robotics, game AI, and autonomous systems.

Since all three categories are valid, the correct answer is Option D (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Machine Learning Paradigms: Supervised, Unsupervised, Reinforcement.

NEW QUESTION # 28

Which of the following is TRUE about Avro?

- A. None of the above
- B. Avro is a data serialization framework
- C. Avro is based on Remote Procedure Call (RPC)
- D. Both A and B

Answer: D

Explanation:

Apache Avro is a widely used framework within the Hadoop ecosystem for data serialization and data exchange.

Option A (Correct): Avro is a compact, fast, binary data serialization format. It allows efficient storage and exchange of structured data.

Option B (Correct): Avro supports Remote Procedure Call (RPC). It provides a framework for RPC communication, making it easier for distributed applications to exchange data across systems.

Option C: Correct, since both statements are true.

Option D: Incorrect because Avro is indeed both a serialization framework and RPC-based.

In data engineering workflows, Avro is valuable because it is schema-based (defined using JSON), highly interoperable, and ensures compatibility across different programming languages. This makes it essential in big data pipelines, Kafka messaging, and Hadoop ecosystem tools.

Thus, the correct answer is Option C (Both A and B).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Big Data Ecosystem Tools & Data Serialization Techniques.

NEW QUESTION # 29

What is DevOps?

- A. Software Development
- B. All
- C. Software Operations
- D. Quality Assurance

Answer: B

Explanation:

DevOps is not just about coding (development) or system administration (operations). It is a holistic cultural and technical practice that unifies:

Software Development (Option A): Writing and building applications.

Software Operations (Option B): Deploying, monitoring, and maintaining systems in production.

Quality Assurance (Option C): Ensuring the reliability, security, and performance of applications through testing and automation.

Thus, DevOps encompasses all three dimensions, making the correct answer Option D (All).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: DevOps & Continuous Delivery.

NEW QUESTION # 30

Which of the following is correct about customer lifetime value (CLTV)?

- Most organizations determine the current customer lifetime value (CLTV) based on historic sales over past 12 to 18 months
- The goal of the CLTV score is to help marketing and store personnel to determine the "value" of a customer

- A. Both i and ii
- B. Only ii
- C. Only i

Answer: A

Explanation:

Customer Lifetime Value (CLTV) is a predictive metric estimating the total revenue a business can reasonably expect from a customer during their entire relationship.

Statement i: Correct. Many organizations calculate CLTV using historic transactional data, often looking at sales records over the past 12-18 months to establish baselines.

Statement ii: Correct. The primary purpose of CLTV is to help marketing, sales, and retail teams understand customer value, enabling them to allocate budgets effectively for retention, promotions, and personalized marketing.

Thus, both statements are correct # Option C (Both i and ii).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: CLTV Metrics and Marketing Analytics.

NEW QUESTION # 31

JSON takes hierarchical data structures and serializes them into:

- A. Any desired format
- B. None of the above
- C. Plain text format
- D. Plain string format
- E. Both A and B

Answer: E

Explanation:

JSON (JavaScript Object Notation) is a lightweight data-interchange format widely used for storing and exchanging structured or semi-structured data. JSON allows hierarchical (tree-like) structures, such as nested objects and arrays, to be serialized into a textual representation.

Option A (Plain text format): Correct. JSON files are stored as plain text, making them human-readable and language-independent.

Option B (Plain string format): Correct. JSON objects are transmitted as strings across networks (e.g., via APIs, RESTful services).

Option C: Incorrect. JSON does not serialize into "any format," but specifically into text/string-based formats.

Option D: Correct. Since JSON is both plain text and transmitted as string format, the right answer is both A and B.

Option E: Incorrect.

Thus, JSON serializes hierarchical data into plain text and string formats.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Engineering Tools: Data Serialization Formats (JSON, XML, Avro).

NEW QUESTION # 32

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