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## DASCA Senior Data Scientist Sample Questions (Q69-Q74):

### NEW QUESTION # 69

Self-driving car is an example of

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

**Answer: D**

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 # 70

Which of the following is a useful feature of functional programming?

- A. Immutable Data
- B. All of the above
- C. Lazy Evaluation
- D. Higher-Order Functions (HOFs)

**Answer: B**

Explanation:

Functional programming (FP) is a paradigm widely adopted in data science and big data tools (e.g., Spark with Scala/Python). Its useful features include:

Option A (Higher-Order Functions): Functions can take other functions as arguments or return them, enabling powerful abstractions like map(), reduce(), and filter().

Option B (Immutable Data): Ensures reliability and thread-safety, crucial for distributed computing. Once created, data structures cannot be modified, preventing side effects.

Option C (Lazy Evaluation): Computations are delayed until results are needed, improving performance in large-scale data operations.

Since FP leverages all three features, the correct answer is Option D (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: Functional Programming in Data Science Tools.

## NEW QUESTION # 71

Machine learning can be used in:

- A. Pattern and image recognition
- B. Fraud detection
- C. All of the above
- D. Web search results
- E. Real-time ads on web pages and mobile devices

**Answer: C**

Explanation:

Machine Learning has broad applications across industries and technologies:

Fraud Detection (Option A): Detecting anomalies in financial transactions, credit card usage, and cybersecurity threats.

Web Search Results (Option B): Ranking algorithms (e.g., Google's PageRank enhanced by ML techniques) improve relevance of search queries.

Real-time Ads (Option C): Online ad systems use reinforcement learning and recommendation models to target ads dynamically.

Pattern & Image Recognition (Option D): ML (especially deep learning) powers facial recognition, handwriting recognition, medical imaging, etc.

Since ML is used in all these applications, the correct answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Applications of Machine Learning Across Domains.

## NEW QUESTION # 72

Business Intelligence (BI) is:

- A. Both B and C
- B. BI focuses on reporting on the future state of the business
- **C. Both A and B**
- D. BI focuses on descriptive analytics
- E. BI focuses on "What happened?"

**Answer: C**

Explanation:

Business Intelligence (BI) is primarily focused on descriptive analytics and reporting - understanding historical and current business performance.

Option A (Descriptive analytics): Correct. BI uses dashboards, reports, and OLAP tools to summarize what has occurred in the past.

Option B ("What happened?"): Correct. BI answers retrospective questions by analyzing transactional and operational data.

Option C (Future state): Incorrect. Predicting future business outcomes falls under predictive analytics or advanced analytics, not BI. Thus, the correct answer is Option D (Both A and B).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Visualization & BI: Descriptive Analytics and Reporting.

### NEW QUESTION # 73

Which of the following is TRUE about Avro?

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

**Answer: C**

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 # 74

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