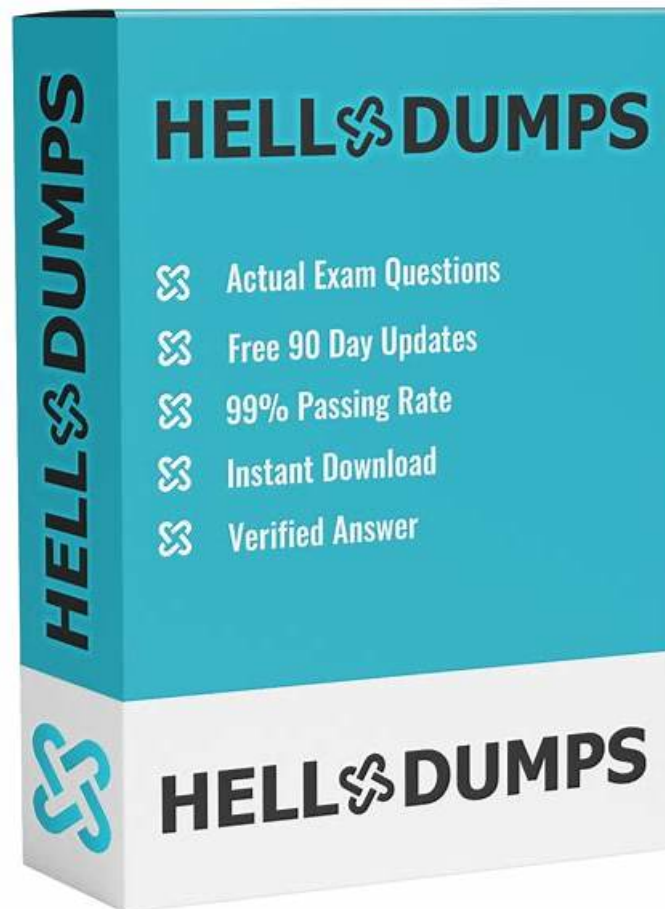


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DASCA Senior Data Scientist Sample Questions (Q17-Q22):

NEW QUESTION # 17

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

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

Answer: B

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 # 18

ElementTree sub-library gives us direct access to:

- **A. Parse tree of the XML**
- B. Delete tree of the XML
- C. Insert tree of the XML
- D. None of the above
- E. Copy tree of the XML

Answer: A

Explanation:

In Python, the ElementTree module (part of the standard library `xml.etree.ElementTree`) provides a simple and efficient API for parsing and creating XML data.

The main feature of ElementTree is its ability to provide direct access to the parse tree of an XML document.

This allows developers to:

Parse XML into an in-memory tree structure.

Traverse, search, modify, and extract information from XML elements.

Write back changes into XML files.

Options B, C, and D (Delete, Copy, Insert tree) are not standard terminology in XML handling with ElementTree. While you can delete, insert, or copy elements, the module itself primarily gives parse tree access.

Thus, the correct answer is Option A (Parse tree of the XML).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: XML/JSON Handling in Python.

NEW QUESTION # 19

The Big Data Vision Workshop process is ideal for organizations who:

- **A. All of the above**
- B. Have a desire to leverage Big Data to transform their business but do not know where and how to start
- C. Have a wealth of data that they do not know how to monetize
- D. Both A and B

- E. Have a desire to leverage the Big Data Vision Workshop to identify where and how to leverage data and analytics to power their business models

Answer: A

Explanation:

The Big Data Vision Workshop is an early-phase framework designed to help organizations shape their data- driven transformation journey. It is particularly beneficial when:

Option A: Organizations want to leverage big data but lack clarity on where to start.

Option B: Organizations already have large volumes of data but struggle to derive monetization strategies from it.

Option C: Organizations want to identify use cases where data and analytics can enhance or even redefine their business models.

Since all three statements apply, the correct answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: Big Data Vision Workshop.

NEW QUESTION # 20

Which of the following is NOT an example of graphical model?

- **A. Flow charts**
- B. Road maps
- C. Electrical circuits
- D. Geographical networks
- E. Computer networks

Answer: A

Explanation:

Graphical models represent relationships between objects using nodes (entities) and edges (relationships).

Examples include:

Road maps (Option A): Nodes = intersections, Edges = roads.

Electrical circuits (Option B): Nodes = components, Edges = connections.

Computer networks (Option C): Nodes = devices, Edges = connections.

Geographical networks (Option D): Nodes = locations, Edges = transport or connectivity.

However:

Flow charts (Option E): These represent process flows, not structural networks of entities and relationships.

They are procedural diagrams, not graphical models in the statistical/graph-theory sense.

Thus, the correct answer is Option E (Flow charts).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Analytics: Graphical Models and Graph Analysis.

NEW QUESTION # 21

Which of the following is TRUE about Avro?

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

Answer: A

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

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