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## DASCA Senior Data Scientist Sample Questions (Q33-Q38):

### NEW QUESTION # 33

Which of the following is NOT a cluster management tool?

- A. Zettaset Orchestrator
- B. Apache Ambari
- C. **Apache Hadoop**
- D. Apache Mesos

**Answer: C**

Explanation:

Cluster management tools help in orchestrating and monitoring large-scale distributed computing environments.

Zettaset Orchestrator (A): Commercial tool for Hadoop cluster management.

Apache Mesos (B): A cluster manager that abstracts CPU, memory, and storage to enable fault-tolerant distributed systems.

Apache Ambari (C): An open-source tool for provisioning, managing, and monitoring Hadoop clusters.

Apache Hadoop (D): Not a cluster management tool. Hadoop is a framework for distributed storage and processing (HDFS + MapReduce), not a management tool.

Thus, the correct answer is Option D (Apache Hadoop).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Big Data Ecosystem: Hadoop Tools & Cluster Management.

#### NEW QUESTION # 34

Which of the following is an example of NLP?

- A. Finding which text documents are about similar topics
- B. Flagging e-mails as spam
- C. Both A and C
- D. All of the above
- E. Using Twitter to assess public sentiment

**Answer: D**

Explanation:

Natural Language Processing (NLP) is the field of machine learning that deals with human language understanding and generation.

Applications include:

Option A (Spam detection): NLP techniques classify emails based on text patterns and context.

Option B (Sentiment analysis on Twitter): NLP models analyze textual data to extract emotions, opinions, and trends.

Option C (Topic modeling): NLP clustering and probabilistic models (e.g., LDA) classify documents by semantic similarity.

Since all are valid NLP applications, the correct answer is Option E (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Applications of Machine Learning: NLP in Real- World Use Cases.

#### NEW QUESTION # 35

Which of the following is a Python library for fitting Bayesian networks to real data?

- A. SciLib
- B. MyLib
- C. MCMC
- D. PyMC
- E. SCIMC

**Answer: D**

Explanation:

The correct answer is PyMC (Option B).

PyMC is an open-source Python library widely used for Bayesian statistical modeling and probabilistic machine learning. It provides a robust framework for defining and fitting Bayesian networks to real data using Markov Chain Monte Carlo (MCMC) sampling techniques, as well as variational inference methods.

This makes it a powerful tool for data scientists who want to work with uncertainty modeling, probabilistic inference, and causal reasoning in complex datasets.

Let's clarify the other options to avoid confusion:

\* Option A: SciLib- There is no standard Python library by this name that is related to Bayesian networks. (It may be confused with SciPy or SciKit-Learn, but those are not specialized for Bayesian inference.)

\* Option C: MyLib- This is not a recognized Python package in the data science ecosystem.

\* Option D: MCMC- While Markov Chain Monte Carlo is the technique used in Bayesian estimation, it is not a standalone library. Instead, PyMC implements MCMC as part of its computational framework.

\* Option E: SCIMC- No such Python library exists; it appears to be a distractor.

PyMC's primary strength is its ability to let data scientists define models in a probabilistic programming style, making it easier to represent uncertainties and hidden variables in data. This aligns with DASCA's emphasis on ensuring data scientists understand both statistical foundations and the tools required to implement them programmatically.

In practice, PyMC is often used in applications such as:

\* Forecasting (e.g., time series with uncertainty bounds)

\* Causal inference (estimating hidden relationships in data)

\* Risk modeling (finance, healthcare, or supply chain domains)

\* Machine learning with uncertainty quantification

Thus, PyMC is the correct library for fitting Bayesian networks in Python.

### NEW QUESTION # 36

Designing an algorithm to play chess is usually an example of which type of machine learning?

- A. Clustering
- B. Supervised learning
- C. Reinforcement learning
- D. Pattern density

**Answer: C**

Explanation:

Chess-playing algorithms are a classic application of Reinforcement Learning (RL) in machine learning.

In RL, an agent (chess program) interacts with an environment (chessboard/game state).

It learns optimal strategies (policies) by trial and error, guided by reward signals (e.g., winning the game, capturing pieces).

Famous examples include DeepMind's AlphaZero and earlier systems like IBM's Deep Blue, which incorporated reinforcement principles along with heuristics.

Option B (Pattern density): Not a recognized ML paradigm

Option C (Supervised learning): While supervised ML can be used to predict moves from labeled games, chess strategy learning is best modeled as reinforcement learning.

Option D (Clustering): Not applicable; clustering is unsupervised grouping of data.

Thus, chess-playing algorithms are best categorized as Reinforcement Learning # Option A.

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Reinforcement Learning Applications: Games & Autonomous Systems.

### NEW QUESTION # 37

Which of the following is correct about microservices?

- A. Each service is a new project
- B. All of the above
- C. Each service is independent
- D. Each service can be developed in any language that best fits the requirement

**Answer: B**

Explanation:

Microservices architecture is a software design approach where applications are developed as a collection of small, loosely coupled, and independently deployable services.

Option A: Correct. Each microservice runs independently and has its own lifecycle, allowing scalability and modularity.

Option B: Correct. Each service can be treated as an independent project with its own repository, build pipeline, and deployment.

Option C: Correct. Microservices can be developed in different programming languages or frameworks, chosen based on the best fit for each specific requirement.

Therefore, the correct answer is Option D (All of the above).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Management & Engineering: Microservices in Data Ecosystems.

### NEW QUESTION # 38

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