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CompTIA DY0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Specialized Applications of Data Science: This section of the exam measures skills of a Senior Data Analyst and introduces advanced topics like constrained optimization, reinforcement learning, and edge computing. It covers natural language processing fundamentals such as text tokenization, embeddings, sentiment analysis, and LLMs. Candidates also explore computer vision tasks like object detection and segmentation, and are assessed on their understanding of graph theory, anomaly detection, heuristics, and multimodal machine learning, showing how data science extends across multiple domains and applications.

Topic 2	<ul style="list-style-type: none"> • Operations and Processes: This section of the exam measures skills of an AI ML Operations Specialist and evaluates understanding of data ingestion methods, pipeline orchestration, data cleaning, and version control in the data science workflow. Candidates are expected to understand infrastructure needs for various data types and formats, manage clean code practices, and follow documentation standards. The section also explores DevOps and MLOps concepts, including continuous deployment, model performance monitoring, and deployment across environments like cloud, containers, and edge systems.
Topic 3	<ul style="list-style-type: none"> • Mathematics and Statistics: This section of the exam measures skills of a Data Scientist and covers the application of various statistical techniques used in data science, such as hypothesis testing, regression metrics, and probability functions. It also evaluates understanding of statistical distributions, types of data missingness, and probability models. Candidates are expected to understand essential linear algebra and calculus concepts relevant to data manipulation and analysis, as well as compare time-based models like ARIMA and longitudinal studies used for forecasting and causal inference.
Topic 4	<ul style="list-style-type: none"> • Machine Learning: This section of the exam measures skills of a Machine Learning Engineer and covers foundational ML concepts such as overfitting, feature selection, and ensemble models. It includes supervised learning algorithms, tree-based methods, and regression techniques. The domain introduces deep learning frameworks and architectures like CNNs, RNNs, and transformers, along with optimization methods. It also addresses unsupervised learning, dimensionality reduction, and clustering models, helping candidates understand the wide range of ML applications and techniques used in modern analytics.
Topic 5	<ul style="list-style-type: none"> • Modeling, Analysis, and Outcomes: This section of the exam measures skills of a Data Science Consultant and focuses on exploratory data analysis, feature identification, and visualization techniques to interpret object behavior and relationships. It explores data quality issues, data enrichment practices like feature engineering and transformation, and model design processes including iterations and performance assessments. Candidates are also evaluated on their ability to justify model selections through experiment outcomes and communicate insights effectively to diverse business audiences using appropriate visualization tools.

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CompTIA DataAI Certification Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

A data scientist is clustering a data set but does not want to specify the number of clusters present. Which of the following algorithms should the data scientist use?

- A. k-means
- **B. DBSCAN**
- C. k-nearest neighbors
- D. Logistic regression

Answer: B

Explanation:

DBSCAN discovers clusters based on density without requiring you to predefine the number of clusters, automatically finding arbitrarily shaped groups and identifying noise points.

NEW QUESTION # 71

A data scientist receives an update on a business case about a machine that has thousands of error codes. The data scientist creates the following summary statistics profile while reviewing the logs for each machine:

Number of machines observed	3,000,000
Number of unique error codes observed	19,000
Median number of unique codes observed per machine	7
Median number of error transactions observed per machine	45

| Number of machines observed | 3,000,000
| Number of unique error codes observed | 19,000
| Median number of unique codes per machine | 7
| Median number of error transactions | 45

Which of the following is the most likely concern with respect to data design for model ingestion?

- A. Sparse matrix
- B. Multivariate outliers
- C. Granularity misalignment
- D. Insufficient features

Answer: A

Explanation:

With 19,000 unique error codes and only 7 codes per machine (on median), the data structure will likely consist of a very large number of binary features (e.g., one-hot encoded error codes), most of which will be 0 for any given machine. This leads to a sparse matrix-where the majority of elements are zero-which poses computational and modeling challenges.

Why the other options are incorrect:

- * B: Granularity misalignment would mean mismatched levels (e.g., mixing daily and hourly data), which is not the issue here.
- * C: There are many features (error codes), not too few.
- * D: Multivariate outliers involve unusual combinations across features, not sparsity.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.3:"High-cardinality categorical features can result in sparse matrices, especially when one-hot encoded for models."

NEW QUESTION # 72

A data scientist needs to analyze a company's chemical businesses and is using the master database of the conglomerate company. Nothing in the data differentiates the data observations for the different businesses. Which of the following is the most efficient way to identify the chemical businesses' observations?

- A. Perform analysis on all of the data and create a summary report on the results relevant to chemical operations.
- B. Consult with the business team to identify which sites are responsible for chemical operations and ingest only the relevant data for analysis.
- C. Ingest the data from all of the hard drives and perform exploratory data analysis to identify which business is responsible for chemical operations.
- D. Ingest data from the hard drive containing the most data and present sample results on the chemical operations.

Answer: B

Explanation:

Engaging the business team leverages domain expertise to pinpoint which records pertain to chemical operations, allowing you to extract and analyze just the relevant subset. This avoids the time and resource waste of ingesting and sifting through unrelated data.

NEW QUESTION # 73

A movie production company would like to find the actors appearing in its top movies using data from the tables below. The resulting data must show all movies in Table 1, enriched with actors listed in Table 2.

Table 1: Top Movies

ID	Movie	Year
1	Movie 1	2000
2	Movie 2	2010
3	Movie 3	2015
4	Movie 4	1990

Table 2: Actors

ID	Actor	Acted_In
10	Smith	Movie 3
11	Johnson	Movie 5
30	Taylor	Movie 1
50	Smith	Movie 7

Which of the following query operations achieves the desired data set?

- A. Perform a LEFT JOIN on Table 1 using column Movie, with Table 2 using column Acted_In.
- B. Perform an INTERSECT between Table 1 using column Movie, and Table 2 using column Acted_In.
- C. Perform an INNER JOIN between Table 1 using column Movie, and Table 2 using column Acted_In.
- D. Perform a UNION between Table 1 using column Movie, and Table 2 using column Acted_In.

Answer: A

Explanation:

A LEFT JOIN returns every row from Table 1 (all top movies) and brings in matching actors from Table 2 where the Movie = Acted_In, leaving NULLs for movies without listed actors.

NEW QUESTION # 74

Which of the following methods should a data scientist use just before switching to a potential replacement model?

- A. A/B testing
- B. CI/CD
- C. Performance monitoring
- D. Containerization

Answer: A

Explanation:

A/B testing allows a controlled experiment comparing the performance of two models - the current (A) vs. the candidate (B) - on live data. It's an industry best practice to validate real-world behavior before full replacement.

Why the other options are incorrect:

- * B: Performance monitoring helps detect drift but doesn't directly compare models.
- * C: CI/CD automates deployment but doesn't evaluate performance differences.
- * D: Containerization packages the model but doesn't test it comparatively.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 5.5:"A/B testing is a recommended approach to validate model performance before switching versions in production."

* ML System Operations Guide, Chapter 6:"Use A/B testing to ensure new models outperform baselines before full rollout."

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NEW QUESTION # 75

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