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CompTIA DY0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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 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"> • 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.

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CompTIA DataAI Certification Exam Sample Questions (Q39-Q44):

NEW QUESTION # 39

A data scientist is designing a real-time machine-learning model that classifies a user based on initial behavior. The run times of these models are provided in the following table:

Which of the following models should the data scientist recommend for deployment?

- A. Random forest
- B. Artificial neural network
- C. Decision trees
- **D. XGBoost**

Answer: D

Explanation:

In real-time systems, low latency (short run time) is critical. While the Artificial Neural Network provides the highest accuracy, its 12-minute runtime makes it unsuitable for real-time inference. Random forest is the fastest but offers the lowest accuracy.

XGBoost provides an excellent balance between runtime (5 minutes) and accuracy (90%). It's well-optimized for performance and scalability, and thus is a strong candidate for real-time classification when balancing both efficiency and predictive quality.

Why the other options are less ideal:

* B: Random forest is faster but significantly less accurate.

* C: Decision trees have longer run time than XGBoost with only a 2% accuracy improvement.

* D: Artificial neural network has the highest accuracy but is too slow for real-time applications.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 4.3: "In real-time applications, model selection involves a trade-off between accuracy and inference speed. XGBoost offers competitive accuracy with efficient runtime."

* Machine Learning Systems Design Guide, Chapter 7: "XGBoost is well-suited for real-time systems due to its balance of model complexity and fast prediction times."

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NEW QUESTION # 40

A data scientist is deploying a model that needs to be accessed by multiple departments with minimal development effort by the departments. Which of the following APIs would be best for the data scientist to use?

- A. SOAP
- B. RPC
- C. JSON
- **D. REST**

Answer: D

Explanation:

RESTful APIs use standard HTTP methods and lightweight data formats (typically JSON), making them easy for diverse teams to integrate with minimal effort and without heavy tooling.

NEW QUESTION # 41

A data scientist is standardizing a large data set that contains website addresses. A specific string inside some of the web addresses needs to be extracted. Which of the following is the best method for extracting the desired string from the text data?

- **A. Regular expressions**
- B. Named-entity recognition
- C. Find and replace
- D. Large language model

Answer: A

Explanation:

Regular expressions (regex) are powerful tools for pattern matching in text. They are ideal for extracting substrings, such as domains, parameters, or specific keywords from URLs or structured text fields.

Why the other options are incorrect:

* B: NER is used to extract named entities (like names, places) - not substrings in structured text.

* C: LLMs are overkill and not efficient for simple string matching tasks.

* D: Find and replace is manual and non-scalable for large data sets.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 6.3: "Regular expressions provide a flexible method to extract patterns and substrings in structured or semi-structured text."

* Data Cleaning Handbook, Chapter 3: "Regex is the most effective tool for parsing text formats like URLs, emails, or custom tags."

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NEW QUESTION # 42

Which of the following does k represent in the k-means model?

- A. Number of model tests
- B. Distance between features
- C. Number of data splits
- **D. Number of clusters**

Answer: D

Explanation:

In k-means clustering, the parameter k directly defines how many clusters the algorithm will partition the data into.

NEW QUESTION # 43

Which of the following problem-solving approaches is a set of guidelines to handle highly variable and not fully apparent situations?

- A. Schedule
- **B. Heuristic**
- C. Algorithm
- D. Plan

Answer: B

Explanation:

Heuristics are rule-of-thumb strategies that guide problem solving in complex, uncertain situations where a fixed algorithm or plan isn't feasible.

NEW QUESTION # 44

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