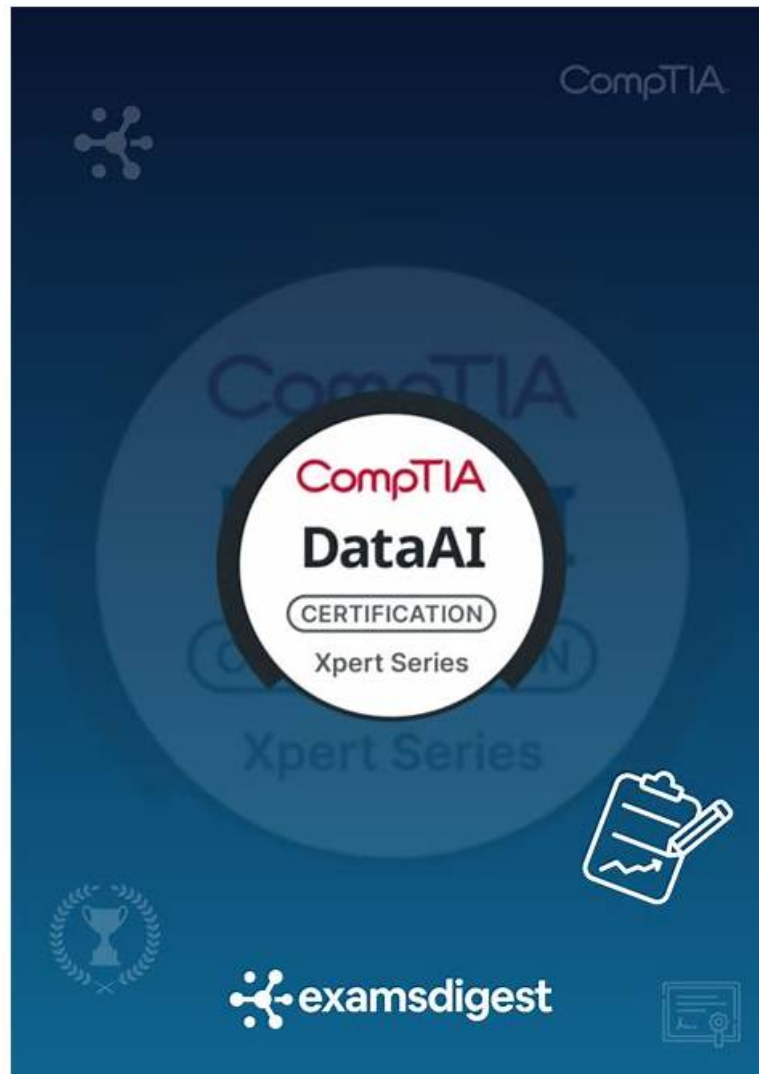


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CompTIA DY0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	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	• 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	• 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 4	• 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 5	• 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.

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CompTIA DataAI Certification Exam Sample Questions (Q76-Q81):

NEW QUESTION # 76

A data scientist is working with a data set that has ten predictors and wants to use only the predictors that most influence the results. Which of the following models would be the best for the data scientist to use?

- A. OLS
- **B. LASSO**
- C. Ridge
- D. Weighted least squares

Answer: B

Explanation:

LASSO (Least Absolute Shrinkage and Selection Operator) regression performs both variable selection and regularization by adding an L1 penalty to the loss function. It shrinks less important feature coefficients to zero, effectively performing feature selection - perfect for identifying the most influential predictors.

Why the other options are incorrect:

- * A: OLS uses all predictors and doesn't perform feature selection.
- * B: Ridge regression applies an L2 penalty, shrinking coefficients but keeping all predictors.
- * C: Weighted least squares adjusts for heteroscedasticity but doesn't reduce variable count.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.3: "LASSO performs feature selection by zeroing out coefficients of less significant predictors."

* Statistical Learning Textbook, Chapter 6: "LASSO regression is ideal when model interpretability and variable reduction are important."

-

NEW QUESTION # 77

A data scientist needs to:

Build a predictive model that gives the likelihood that a car will get a flat tire.

Provide a data set of cars that had flat tires and cars that did not.

All the cars in the data set had sensors taking weekly measurements of tire pressure similar to the sensors that will be installed in the cars consumers drive.

Which of the following is the most immediate data concern?

- A. Lagged observations
- **B. Granularity misalignment**
- C. Multivariate outliers
- D. Insufficient domain expertise

Answer: B

Explanation:

Granularity misalignment refers to a mismatch between the level of detail in the predictor variables and the event being predicted.

In this case, flat tires are likely discrete, infrequent events, while tire pressure is measured weekly. If the prediction model is trying to link a specific tire pressure value to a binary outcome (flat tire: yes/no), and the timing doesn't align precisely, the predictor variable (pressure) may not be granular enough to accurately associate with the event.

Why the other options are incorrect:

* B: While outliers can exist, they are not the most immediate concern given the time-series nature of the data.

* C: While domain expertise is helpful, it doesn't directly address the data structure issue.

* D: Lagged observations can be engineered in modeling but aren't the primary problem here.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 3.1 (Data Granularity): "Granularity misalignment occurs when the temporal or spatial resolution of features does not align with the prediction target."

* Data Science Process Guide, Section 2.3: "Predictive performance can suffer when temporal mismatch exists between observations and outcomes. Granularity issues must be resolved prior to modeling."

-

NEW QUESTION # 78

A data scientist would like to model a complex phenomenon using a large data set composed of categorical, discrete, and continuous variables. After completing exploratory data analysis, the data scientist is reasonably certain that no linear relationship exists between the predictors and the target. Although the phenomenon is complex, the data scientist still wants to maintain the highest possible degree of interpretability in the final model. Which of the following algorithms best meets this objective?

- A. Multiple linear regression
- B. Artificial neural network
- C. Random forest
- **D. Decision tree**

Answer: D

Explanation:

Decision trees capture complex, nonlinear relationships with a transparent, rule-based structure. They remain highly interpretable (each split can be visualized and explained) unlike ensembles (random forests) or neural networks, and they don't rely on linear assumptions.

NEW QUESTION # 79

Which of the following types of layers is used to downsample feature detection when using a convolutional neural network?

- A. Output
- **B. Pooling**
- C. Hidden
- D. Input

Answer: B

Explanation:

Pooling layers (such as max pooling or average pooling) reduce the spatial dimensions of the feature maps by summarizing local neighborhoods, effectively downsampling the detected features and controlling overfitting.

NEW QUESTION # 80

Given the following:

□ Which of the following time series models best represents this process?

- A. ARIMA(1,1,1)
- B. SARIMA(1, 1, 1) x (1, 1, 1)1
- C. ARMA(1,1)
- **D. AR(1)**

Answer: D

Explanation:

The model has a single autoregressive term and only white-noise errors, matching the definition of an AR(1) process.

NEW QUESTION # 81

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