

# Quiz 2026 High-quality CompTIA DY0-001: Free CompTIA DataAI Certification Exam Practice



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## CompTIA DY0-001 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>

Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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### CompTIA DataAI Certification Exam Sample Questions (Q24-Q29):

#### NEW QUESTION # 24

Which of the following issues should a data scientist be most concerned about when generating a synthetic data set?

- A. The data set having insufficient features
- B. The data set consuming too many resources
- C. The data set not being representative of the population
- D. The data set having insufficient row observations

**Answer: C**

Explanation:

# When generating synthetic data, the key concern is ensuring it accurately reflects the characteristics of the real-world population. A non-representative synthetic dataset may lead to biased models and invalid conclusions.

Why the other options are incorrect:

- \* A: Resource usage is a technical concern but not as critical as representativeness.
- \* B: Feature set can often be replicated or engineered - quality matters more.
- \* C: Synthetic datasets can be scaled up easily - representativeness is harder to validate.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 5.4:"Synthetic data must maintain representational fidelity to the original population in order to be useful for modeling or validation."

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#### NEW QUESTION # 25

A data scientist is building a forecasting model for the price of copper. The only input in this model is the daily price of copper for the last ten years. Which of the following forecasting techniques is the most appropriate for the data scientist to use?

- A. Dynamic time warping
- B. Relative strength

- C. Autoregressive
- D. Moving average

**Answer: C**

Explanation:

An autoregressive model uses past values of the series itself (here, historical daily copper prices) as predictors for future values, making it the most suitable technique when only the time-series history is available.

#### NEW QUESTION # 26

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

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

**Answer: C**

Explanation:

# In k-means clustering, k represents the number of clusters that the algorithm will attempt to form. The algorithm partitions the dataset into k distinct, non-overlapping clusters based on feature similarity. Each cluster has a centroid, and the algorithm aims to minimize the intra-cluster variance.

Why the other options are incorrect:

- \* A: Number of tests is unrelated to the k-means algorithm.
- \* B: Data splits refer to cross-validation or train/test splits, not k in k-means.
- \* D: Distance between features is computed during clustering but is not what "k" represents.

Official References:

- \* CompTIA DataX (DY0-001) Official Study Guide - Section 4.2: "In k-means clustering, k denotes the number of clusters into which the dataset will be partitioned."
- \* Introduction to Machine Learning, Chapter 6: "The 'k' in k-means specifies how many groupings the algorithm will seek to discover based on proximity in feature space."

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#### NEW QUESTION # 27

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

**Answer: A**

Explanation:

LASSO regression uses an L1 penalty that drives less-important feature coefficients to exactly zero, effectively selecting only the predictors that most influence the outcome.

#### NEW QUESTION # 28

A company created a very popular collectible card set. Collectors attempt to collect the entire set, but the availability of each card varies, because some cards have higher production volumes than others. The set contains a total of 12 cards. The attributes of the cards are shown.

The data scientist is tasked with designing an initial model iteration to predict whether the animal on the card lives in the sea or on land, given the card's features: Wrapper color, Wrapper shape, and Animal.

Which of the following is the best way to accomplish this task?

- A. ARIMA



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