

DY0-001 높은 통과율 덤프 샘플 다운, DY0-001 퍼펙트 최신 덤프



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<https://drive.google.com/open?id=1RqAVbi4HTLQA8Y-rjIgbCQEHQ4zCIIwr>

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CompTIA DY0-001 시험요강:

주제	소개
주제 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.
주제 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.
주제 3	<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.
주제 4	<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.

주제 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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>> DY0-001 높은 통과율 덤프 샘플 다운 <<

CompTIA DY0-001 퍼펙트 최신 덤프 - DY0-001 시험패스 가능 덤프

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최신 CompTIA Data+ DY0-001 무료 샘플문제 (Q67-Q72):

질문 # 67

A data scientist is developing a model to predict the outcome of a vote for a national mascot. The choice is between tigers and lions. The full data set represents feedback from individuals representing 17 professions and 12 different locations. The following rank aggregation represents 80% of the data set:

(Screenshot shows survey rankings for just two professions and a few locations, all voting for "Tigers") Which of the following is the most likely concern about the model's ability to predict the outcome of the vote?

- A. Extrapolated data
- B. Out-of-sample data
- C. In-sample data
- D. Interpolated data

정답: A

설명:

Extrapolated data refers to making predictions about data points that fall outside the observed range or distribution. Since the sample data (80%) is heavily skewed toward a small subset of professions and locations, predicting results for the remaining unrepresented professions and regions involves extrapolation.

Why the other options are incorrect:

- * A: Interpolation occurs within the bounds of observed data - not the issue here.
- * C: In-sample data refers to training data, which is overrepresented in this case.
- * D: Out-of-sample data is a concern in generalization but extrapolation is more specific here.

Official References:

- * CompTIA DataX (DY0-001) Study Guide - Section 3.2: "Extrapolation introduces risk when models are used outside the range of data they were trained on, especially if certain subgroups are underrepresented."

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질문 # 68

A data scientist is attempting to identify sentences that are conceptually similar to each other within a set of text files. Which of the

following is the best way to prepare the data set to accomplish this task after data ingestion?

- A. Sampling
- B. One-hot encoding
- C. Extrapolation
- **D. Embeddings**

정답: D

설명:

Generating embeddings transforms each sentence into a dense numerical vector in a semantic space, where conceptually similar sentences lie close together, enabling straightforward similarity calculations (e.g., cosine similarity) to group or identify related sentences.

질문 # 69

A data scientist is working with a data set that covers a two-year period for a large number of machines. The data set contains:

- * Machine system ID numbers
- * Sensor measurement values
- * Daily timestamps for each machine

The data scientist needs to plot the total measurements from all the machines over the entire time period.

Which of the following is the best way to present this data?

- **A. Line plot**
- B. Box-and-whisker plot
- C. Scatter plot
- D. Histogram

정답: A

설명:

Line plots are ideal for visualizing data trends over continuous time. In this case, plotting the total daily measurements across a two-year period is a time series task, and a line plot shows progression and pattern over time clearly.

Why the other options are incorrect:

- * A: Scatter plots are better for relationship exploration, not time trends.
- * C: Histograms display distribution - not suitable for continuous time trends.
- * D: Box plots show spread and outliers - not temporal behavior.

Official References:

- * CompTIA DataX (DY0-001) Study Guide - Section 1.2: "Use line plots for visualizing temporal trends in time-series data."
- * Time Series Visualization Guide, Chapter 2: "Line plots are effective for showing cumulative or aggregated values over time."

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질문 # 70

A data analyst wants to use compression on an analyzed data set and send it to a new destination for further processing. Which of the following issues will most likely occur?

- **A. Server CPU usage will be too high.**
- B. Operating system support will be missing.
- C. Library dependency will be missing.
- D. Server memory usage will be too high.

정답: A

설명:

Compression and decompression are CPU-intensive operations; on large data sets, the extra processing load can significantly spike CPU utilization. Memory, OS support, or library dependencies are far less likely to be the primary bottleneck in a standard compression workflow.

질문 # 71

A client has gathered weather data on which regions have high temperatures. The client would like a visualization to gain a better understanding of the data.

INSTRUCTIONS

Part 1

Review the charts provided and use the drop-down menu to select the most appropriate way to standardize the data.

Part 2

Answer the questions to determine how to create one data set.

Part 3

Select the most appropriate visualization based on the data set that represents what the client is looking for.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



정답:

설명:

See explanation below.

Explanation:

Part 1

Select Table 2. Table 2 contains mixed temperature scales (°F and °C) that must be standardized before visualization.

Variable: Temperature/scale

Action: Correct

Value to correct: 50 °C

Part 2

Method: Data matching

Join variable: Zip code

You need to merge the two tables by aligning matching records, which is a data-matching (join) operation, and ZIP code is the shared, uniquely identifying field linking each region's weather reading to its city.

Part 3

Choose the choropleth map (the first option).

A choropleth map best shows geographic variation in temperature by coloring each state (or region) according to its recorded value. This lets the client immediately see where the highest and lowest temperatures occur across the U.S. without distracting elements like bubble size or combined chart axes.

질문 # 72

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