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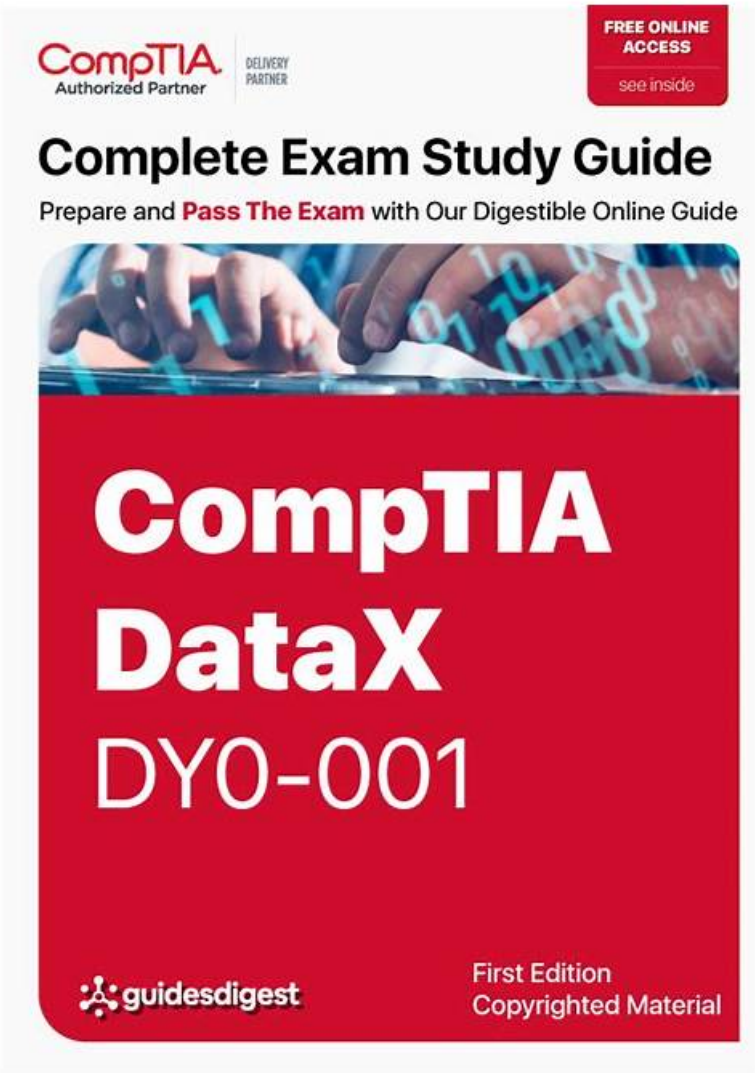

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CompTIA DataX Certification Exam Sample Questions (Q81-Q86):

NEW QUESTION # 81
A data scientist wants to predict a person's travel destination. The options are:
* Branson, Missouri, United States
* Mount Kilimanjaro, Tanzania
* Disneyland Paris, Paris, France
* Sydney Opera House, Sydney, Australia
Which of the following models would best fit this use case?

- A. Linear discriminant analysis
- B. Latent semantic analysis
- C. Principal component analysis
- D. k-means modeling

Answer: A

Explanation:
Linear Discriminant Analysis (LDA) is a supervised classification method used to predict a categorical target (such as travel destination) based on multiple input features. It models decision boundaries between classes - which is appropriate when predicting a fixed set of destinations.
Why the other options are incorrect:
* B: k-means is unsupervised and doesn't use labeled output like travel destination.
* C: Latent Semantic Analysis is used for extracting relationships from textual data - not categorical prediction.
* D: PCA reduces dimensionality but doesn't classify.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 4.1:"Linear Discriminant Analysis is used when the response variable is categorical and the objective is classification."
* Classification Techniques Guide, Chapter 7:"LDA excels in multi-class prediction when the input data is continuous and the output is a known category."
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NEW QUESTION # 82
Which of the following is a key difference between KNN and k-means machine-learning techniques?

- A. KNN is used for finding centroids, while k-means is used for finding nearest neighbors.
- B. KNN is used for classification, while k-means is used for clustering.
- C. KNN operates exclusively on continuous data, while k-means can work with both continuous and categorical data.
- D. KNN performs better with longitudinal data sets, while k-means performs better with survey data sets.

Answer: B

Explanation:
K-Nearest Neighbors (KNN) is a supervised machine learning algorithm used primarily for classification and regression. It labels a new instance by majority vote (or averaging, in regression) of its k-nearest labeled neighbors.
k-Means is an unsupervised learning algorithm used for clustering. It partitions unlabeled data into k groups based on feature similarity, using centroids.
Thus, the key difference is in their purpose:
* KNN # Classification (Supervised)
* K-Means # Clustering (Unsupervised)
Why the other options are incorrect:
* A: Both can technically operate on continuous or categorical data (with preprocessing).

* B: This is not a meaningful or standardized distinction.
* C: This reverses the actual roles. k-means finds centroids; KNN finds nearest neighbors.
Official References:
* CompTIA DataX (DY0-001) Official Study Guide - Section 4.1 (Classification vs. Clustering):"KNN is a supervised learning algorithm for classification tasks. K-means is an unsupervised clustering technique that groups data by proximity to centroids."
* Data Science Handbook, Chapter 5:"One key distinction: KNN uses labeled data to classify or regress; k-means uses unlabeled data to identify groupings."
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NEW QUESTION # 83
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. Moving average
- C. Autoregressive
- D. Relative strength

Answer: C

Explanation:
An Autoregressive (AR) model is ideal when past values of a time series are used to predict future values.
Since the only input is historical price data of copper, AR is the most appropriate technique.
Why the other options are incorrect:
* B: Moving average smooths noise but doesn't model the dependencies for prediction.
* C: Dynamic time warping is used for measuring similarity between time series, not forecasting.
* D: Relative strength is a financial metric used for comparing asset performance - not a forecasting technique.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 3.5:"Autoregressive models are used when the goal is to predict future values based solely on past values in a univariate time series."
* Time Series Analysis and Forecasting, Chapter 5:"AR models capture the temporal dependencies in time series data and are foundational in time-based prediction."
-

NEW QUESTION # 84
A data scientist has built a model that provides the likelihood of an error occurring in a factory. The historical accuracy of the model is 90%. At a specific factory, the model is reporting a likelihood score of 0.90. Which of the following explains a confidence score of 0.90?

- A. Running this model for all known factory issues, it is expected the model will identify 90 out of 100 known factory issues.
- B. Running this model on 100 samples of factories, a certain model performance is expected for 90 out of the 100 samples.
- C. Running this model 100 times within a factory it is expected the model will predict error 90 out of 100times the model is ran.
- D. Running this model 100 times on a factory, it is expected the model will predict 90 out of 100 factory errors.

Answer: C

Explanation:
A likelihood score of 0.90 indicates the model's confidence that an error will occur in this particular instance. Interpreted probabilistically, it means that if this scenario happened 100 times, the model would expect an error in 90 of those cases.
Why the other options are incorrect:
* A: Confuses confidence with recall or precision.
* B: Refers to model sampling performance, not instance-level prediction.
* C: Implies a prediction of actual factory errors - not the model's forecast probability.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 3.2:"A confidence score in a classification model indicates the model's belief in the outcome of a specific prediction."
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NEW QUESTION # 85
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.

Card number	Wrapper color	Wrapper shape	Animal	Habitat
1	Red	Diamond	Dog	Land
2	Red	Triangle	Whale	Sea
3	Red	Diamond	Fish	Sea
4	Red	Triangle	Shark	Sea
5	Red	Diamond	Elephant	Land
6	Red	Triangle	Squid	Sea
7	Black	Diamond	Bird	Land
8	Black	Triangle	Horse	Land
9	Black	Diamond	Octopus	Sea
10	Black	Triangle	Clam	Sea
11	Black	Diamond	Bear	Land
12	Black	Triangle	Lion	Land

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. Association rules
- B. ARIMA
- C. Linear regression
- D. Decision trees

Answer: D

Explanation:
Decision trees are supervised classification models that can be used to predict a categorical target variable (e.
g., Habitat: Land or Sea) based on input features (e.g., Wrapper color, Wrapper shape, Animal type). They are interpretable, require minimal preprocessing, and are ideal for structured categorical data like this.
Why the other options are incorrect:
* A: ARIMA (AutoRegressive Integrated Moving Average) is used for time-series forecasting, not classification.
* B: Linear regression is used for predicting continuous numeric values, not categorical variables like "Land" or "Sea".
* C: Association rules (like in market basket analysis) are used to discover relationships or co-occurrence among variables, not to build predictive models.
Official References:
* CompTIA DataX (DY0-001) Study Guide - Section 4.1 & 4.2:"Decision trees are powerful classifiers for categorical output variables and allow for interpretable models based on feature splits."
* Machine Learning Textbook, Chapter 6:"Decision trees are ideal for early-stage model prototyping when the output is categorical and the data structure is tabular."

NEW QUESTION # 86
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