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CompTIA DataX Certification Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

A team is building a spam detection system. The team wants a probability-based identification method without complex, in-depth training from the historical data set. Which of the following methods would best serve this purpose?

- A. Random forest
- **B. Naive Bayes**
- C. Logistic regression
- D. Linear regression

Answer: B

Explanation:

Naive Bayes is a probabilistic classification algorithm based on Bayes' theorem. It is lightweight, fast, and effective for text-based classification problems like spam detection. It also performs well with small or simple training sets.

Why the other options are incorrect:

- * A: Logistic regression is also probabilistic but requires more feature preprocessing.
- * B: Random forest is accurate but computationally heavier.
- * D: Linear regression is for continuous targets - not suitable for classification.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 4.1: "Naive Bayes classifiers are ideal for spam detection and similar applications due to their efficiency and probabilistic nature."

* Text Classification Techniques, Chapter 4: "Naive Bayes requires minimal training and works well with high-dimensional, sparse data such as email content."

NEW QUESTION # 31

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

Answer: B

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 # 32

A data scientist uses a large data set to build multiple linear regression models to predict the likely market value of a real estate property. The selected new model has an RMSE of 995 on the holdout set and an adjusted R^2 of 0.75. The benchmark model has an RMSE of 1,000 on the holdout set. Which of the following is the best business statement regarding the new model?

- A. The model fails to improve meaningfully on the benchmark model.
- B. The model's adjusted R^2 is exceptionally strong for such a complex relationship.
- C. The model should be deployed because it has a lower RMSE.
- D. The model's adjusted R^2 is too low for the real estate industry.

Answer: A

Explanation:

The difference between the benchmark RMSE (1,000) and the new model RMSE (995) is minimal and may not justify replacing the existing model. Though the adjusted R^2 is decent, business decisions should be based on whether the improvement is statistically and practically significant.

Why the other options are incorrect:

* A: The RMSE improvement is marginal and may not be worth deployment effort.

* B: The adjusted R^2 of 0.75 is moderate, not necessarily "exceptionally strong."

* D: The claim about industry standards is unsupported and not universally true.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.2: "Model selection must consider both statistical improvement and practical significance."

* Data Science Best Practices, Chapter 8: "Small improvements in performance metrics must be evaluated in the context of deployment cost and business impact."

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NEW QUESTION # 33

Which of the following is a classic example of a constrained optimization problem?

- A. The cold start problem
- B. The traveling salesman
- C. Calculating gradient descent
- D. Calculating local maximum

Answer: B

Explanation:

The Traveling Salesman Problem (TSP) is a classic example of a constrained optimization problem. The goal is to find the shortest possible route that visits a set of locations once and returns to the origin point - under constraints such as distance, order, and time.

Why the other options are incorrect:

* A: The cold start problem is related to recommender systems, not optimization.

* C: Calculating a local maximum is part of optimization but not necessarily constrained.

* D: Gradient descent is an optimization method, but not itself a problem with constraints.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 3.4: "Constrained optimization involves solving problems under defined limitations - e.g., distance or time constraints in routing."

* Optimization Techniques in Data Science, Chapter 6: "TSP is a benchmark in combinatorial optimization, representing a multi-variable problem with strict constraints."

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NEW QUESTION # 34

A data analyst is analyzing data and would like to build conceptual associations. Which of the following is the best way to accomplish this task?

- A. NER
- B. POS
- C. TF-IDF
- D. n-grams

Answer: D

Explanation:

n-grams (bigrams, trigrams, etc.) are sequences of N words used to analyze co-occurrences and build conceptual or contextual associations between terms in natural language processing (NLP). This helps in understanding the semantic structure of language and is ideal for finding relationships between words.

Why the other options are incorrect:

* B: NER (Named Entity Recognition) identifies entities like names or dates; it doesn't focus on conceptual associations.

* C: TF-IDF scores term importance relative to documents, not associations.

* D: POS (Part of Speech) tagging identifies word roles (noun, verb, etc.), not direct associations.

Official References:

* CompTIA DataX (DY0-001) Official Study Guide - Section 6.3: "n-gram analysis is useful for discovering common patterns and associations in unstructured text data."

* Natural Language Processing with Python (NLTK Book), Chapter 3: "N-grams help capture collocations and associations between words that often co-occur, essential for understanding context."

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NEW QUESTION # 35

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