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CompTIA DataX Certification Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

A data scientist needs to determine whether product sales are impacted by other contributing factors. The client has provided the data scientist with sales and other variables in the data set.

The data scientist decides to test potential models that include other information.

INSTRUCTIONS

Part 1

Use the information provided in the table to select the appropriate regression model.

Part 2

Review the summary output and variable table to determine which variable is statistically significant.

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



Answer:

Explanation:

See explanation below.

Explanation:

Part 1

Linear regression.

Of the four models, linear regression has the highest R^2 (0.8), indicating it explains the greatest proportion of variance in sales.

Part 2

Var 4 - Net operations cost.

Net operations cost has a p-value of essentially 0 (far below 0.05), indicating it is the only additional predictor statistically significant in explaining sales. Neither inventory cost ($p=0.90$) nor initial investment ($p=0.23$) reach significance.

NEW QUESTION # 19

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

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 # 20

A data scientist is performing a linear regression and wants to construct a model that explains the most variation in the data. Which of the following should the data scientist maximize when evaluating the regression performance metrics?

- A. Accuracy
- B. AUC
- C. R^2
- D. p value

Answer: C

Explanation:

R^2 (coefficient of determination) quantifies how much of the variance in the dependent variable is explained by the model. A higher R^2 means a better fit to the data, making it the metric to maximize for explanatory power in regression analysis.

Why the other options are incorrect:

* A: Accuracy is used in classification, not regression.

* C: p-values test statistical significance of coefficients, not overall model fit.

* D: AUC (Area Under the Curve) applies to classification models, not regression.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 3.2: " R^2 is a regression performance metric indicating the proportion of variance explained by the independent variables."

NEW QUESTION # 21

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. Logistic regression
- C. Linear regression
- D. Naive Bayes

Answer: D

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 # 22

Which of the following best describes the minimization of the residual term in a ridge linear regression?

- A. e^2
- B. 0
- C. $|e|$
- D. e

Answer: A

Explanation:

In ridge regression, the model minimizes the sum of squared residuals (errors), with an added penalty term on the magnitude of

coefficients (L2 regularization). The residual component specifically is represented by:

e^2 (squared error)

Thus, ridge regression minimizes:

Minimize: $\sum (y_i - \hat{y}_i)^2 + \lambda \sum \beta_j^2$

Why the other options are incorrect:

* A: $|e|$ corresponds to L1 loss (used in Lasso).

* B: e represents the error term itself, not its minimized quantity.

* D: Zero error is ideal but practically unachievable and not the actual loss function being minimized.

Official References:

* CompTIA DataX (DY0-001) Study Guide - Section 1.4: "Ridge regression minimizes the squared error term with an L2 penalty."

* Introduction to Statistical Learning, Chapter 6: "Ridge regression uses squared error loss, which emphasizes larger deviations more heavily than linear loss."

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NEW QUESTION # 23

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