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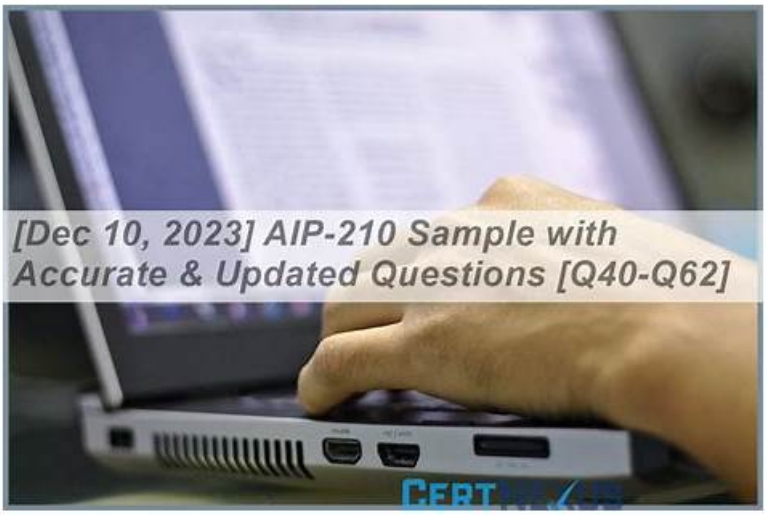

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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	• Transform numerical and categorical data • Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 2	• Recognize relative impact of data quality and size to algorithms • Engineering Features for Machine Learning
Topic 3	• Design machine and deep learning models • Explain data collection • transformation process in ML workflow

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q65-Q70):

NEW QUESTION # 65
Which two encoders can be used to transform categorical data into numerical features? (Select two.)

- A. One-Hot Encoder
- B. Mean Encoder
- C. Median Encoder
- D. Log Encoder
- E. Count Encoder

Answer: A,E

NEW QUESTION # 66
Your dependent variable data is a proportion. The observed range of your data is 0.01 to 0.99. The instrument used to generate the dependent variable data is known to generate low quality data for values close to 0 and close to 1. A colleague suggests performing a logit-transformation on the data prior to performing a linear regression. Which of the following is a concern with this approach?
Definition of logit-transformation
If p is the proportion: logit(p)=log(p/(1-p))

- A. The model will be more likely to violate the assumption of normality.
- B. Noisy data could become more influential in your model.
- C. After logit-transformation, the data may violate the assumption of independence.
- D. Values near 0.5 before logit-transformation will be near 0 after.

Answer: B

Explanation:
Explanation
Logit-transformation is a common way to transform proportion data into a continuous variable that can be used for linear regression. However, one concern with this approach is that noisy data could become more influential in your model. This is because logit-transformation tends to amplify the values close to 0 and 1, which are also the values that are likely to be affected by measurement errors or outliers. This could distort the relationship between the dependent and independent variables and bias the regression coefficients. References:
[Logit Transformation | Real Statistics Using Excel], [Logit transformation for proportions - Cross Validated]

NEW QUESTION # 67
Which of the following scenarios is an example of entanglement in ML pipelines?

- A. Add a new method for drift detection in the model evaluation step.
- B. Change the way output is visualized in the monitoring step.
- C. Add a new pipeline for retraining the model in the model training step.
- D. Change in normalization function in the feature engineering step.

Answer: D

Explanation:
Entanglement in ML pipelines occurs when a change in one step affects other steps that depend on it.
Changing the normalization function in the feature engineering step would affect the model training and evaluation steps, as they rely on the features generated by the feature engineering step. Therefore, this scenario is an example of entanglement in ML pipelines.
The other scenarios are not examples of entanglement, as they do not affect other steps in the pipeline.

NEW QUESTION # 68
Given a feature set with rows that contain missing continuous values, and assuming the data is normally distributed, what is the best way to fill in these missing features?

- A. Delete entire rows that contain any missing features.
- B. Fill in missing features with the average of observed values for that feature in the entire dataset.
- C. Fill in missing features with random values for that feature in the training set.
- D. Delete entire columns that contain any missing features.

Answer: B

Explanation:
Explanation
Missing values are a common problem in data analysis and machine learning, as they can affect the quality and reliability of the data and the model. There are various methods to deal with missing values, such as deleting, imputing, or ignoring them. One of the most common methods is imputing, which means replacing the missing values with some estimated values based on some criteria. For continuous variables, one of the simplest and most widely used imputation methods is to fill in the missing values with the mean (average) of the observed values for that variable in the entire dataset. This method can preserve the overall distribution and variance of the data, as well as avoid introducing bias or noise.

NEW QUESTION # 69
Which two of the following decrease technical debt in ML systems? (Select two.)

- A. Refactoring
- B. Boundary erosion
- C. Documentation readability
- D. Design anti-patterns
- E. Model complexity

Answer: A,C

Explanation:
Explanation
Technical debt is a metaphor that describes the implied cost of additional work or rework caused by choosing an easy or quick solution over a better but more complex solution. Technical debt can accumulate in ML systems due to various factors, such as changing requirements, outdated code, poor documentation, or lack of testing. Some of the ways to decrease technical debt in ML systems are:
Documentation readability: Documentation readability refers to how easy it is to understand and use the documentation of an ML system. Documentation readability can help reduce technical debt by providing clear and consistent information about the system's design, functionality, performance, and maintenance. Documentation readability can also facilitate communication and collaboration among different stakeholders, such as developers, testers, users, and managers.
Refactoring: Refactoring is the process of improving the structure and quality of code without changing its functionality. Refactoring can help reduce technical debt by eliminating code smells, such as duplication, complexity, or inconsistency. Refactoring can also enhance the readability, maintainability, and extensibility of code.

NEW QUESTION # 70
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