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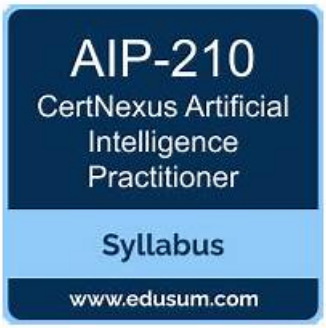

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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	• Design machine and deep learning models • Explain data collection • transformation process in ML workflow
Topic 2	• Transform numerical and categorical data • Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 3	• Train, validate, and test data subsets • Training and Tuning ML Systems and Models
Topic 4	• Address business risks, ethical concerns, and related concepts in training and tuning • Work with textual, numerical, audio, or video data formats
Topic 5	• Recognize relative impact of data quality and size to algorithms • Engineering Features for Machine Learning

Topic 6	• Understanding the Artificial Intelligence Problem • Analyze the use cases of ML algorithms to rank them by their success probability

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q37-Q42):

NEW QUESTION # 37
For each of the last 10 years, your team has been collecting data from a group of subjects, including their age and numerous biomarkers collected from blood samples. You are tasked with creating a prediction model of age using the biomarkers as input.
You start by performing a linear regression using all of the data over the
10-year period, with age as the dependent variable and the biomarkers as predictors.
Which assumption of linear regression is being violated?

- A. Equality of variance (Homoscedastidty)
- B. Independence
- C. Normality
- D. Linearity

Answer: B

Explanation:
Explanation
Independence is an assumption of linear regression that states that the errors (residuals) of the model are independent of each other, meaning that they are not correlated or influenced by previous or subsequent errors.
Independence can be violated when the data has serial correlation or autocorrelation, which means that the value of a variable at a given time depends on its previous or future values. This can happen when the data is collected over time (time series) or over space (spatial data). In this case, the data is collected over time from a group of subjects, which may introduce serial correlation among the errors.

NEW QUESTION # 38
You have a dataset with many features that you are using to classify a dependent variable. Because the sample size is small, you are worried about overfitting. Which algorithm is ideal to prevent overfitting?

- A. Random forest
- B. XGBoost
- C. Logistic regression
- D. Decision tree

Answer: A

NEW QUESTION # 39
Which of the following regressions will help when there is the existence of near-linear relationships among the independent variables (collinearity)?

- A. Linear regression

- B. Clustering
- C. Polynomial regression
- D. Ridge regression

Answer: D

Explanation:
Explanation
Ridge regression is a type of regularization technique that can help reduce collinearity among independent variables. It does this by adding a penalty term to the ordinary least squares (OLS) objective function, which shrinks the coefficients of highly correlated variables towards zero. This reduces the variance of the coefficient estimates and improves the stability and accuracy of the regression model. References: Multicollinearity in Regression Analysis: Problems, Detection, and Solutions - Statistics By Jim, A Beginner's Guide to Collinearity: What it is and How it affects our regression model - StrataScratch

NEW QUESTION # 40
A classifier has been implemented to predict whether or not someone has a specific type of disease.
Considering that only 1% of the population in the dataset has this disease, which measures will work the BEST to evaluate this model?

- A. Recall and explained variance
- B. Precision and recall
- C. Precision and accuracy
- D. Mean squared error

Answer: B

NEW QUESTION # 41
You are implementing a support-vector machine on your data, and a colleague suggests you use a polynomial kernel. In what situation might this help improve the prediction of your model?

- A. When the distribution of the dependent variable is Gaussian.
- B. When the categories of the dependent variable are not linearly separable.
- C. When it is necessary to save computational time.
- D. When there is high correlation among the features.

Answer: B

Explanation:
Explanation
A support-vector machine (SVM) is a supervised learning algorithm that can be used for classification or regression problems. An SVM tries to find an optimal hyperplane that separates the data into different categories or classes. However, sometimes the data is not linearly separable, meaning there is no straight line or plane that can separate them. In such cases, a polynomial kernel can help improve the prediction of the SVM by transforming the data into a higher-dimensional space where it becomes linearly separable. A polynomial kernel is a function that computes the similarity between two data points using a polynomial function of their features.

NEW QUESTION # 42
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