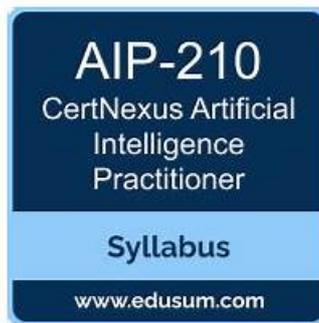


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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Transform numerical and categorical data• Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 2	<ul style="list-style-type: none">• Design machine and deep learning models• Explain data collection• transformation process in ML workflow
Topic 3	<ul style="list-style-type: none">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q23-Q28):

NEW QUESTION # 23

You are building a prediction model to develop a tool that can diagnose a particular disease so that individuals with the disease can receive treatment. The treatment is cheap and has no side effects. Patients with the disease who don't receive treatment have a high risk of mortality.

It is of primary importance that your diagnostic tool has which of the following?

- A. High negative predictive value
- **B. Low false negative rate**
- C. High positive predictive value
- D. Low false positive rate

Answer: B

Explanation:

Explanation

A false negative is an error where a positive case (belonging to the target class) is incorrectly predicted as negative (not belonging to the target class). A false negative rate is the ratio of false negatives to all actual positive cases. A low false negative rate means that most of the positive cases are correctly identified by the classifier.

For a diagnostic tool that can diagnose a particular disease so that individuals with the disease can receive treatment, it is of primary importance that it has a low false negative rate. This is because false negatives can have serious consequences for patients who have the disease but do not receive treatment, such as increased risk of mortality or complications. A low false negative rate can ensure that most patients who have the disease are diagnosed correctly and receive timely treatment.

NEW QUESTION # 24

Which of the following describes a typical use case of video tracking?

- A. Medical diagnosis
- B. Augmented dreaming
- C. Video composition
- **D. Traffic monitoring**

Answer: D

Explanation:

Explanation

Video tracking is a technique that involves detecting and following moving objects in a video sequence. Video tracking can be used for various applications, such as surveillance, security, sports analysis, and human-computer interaction. One typical use case of video tracking is traffic monitoring, where video tracking can help measure traffic flow, detect congestion, identify violations, and optimize traffic signals.

NEW QUESTION # 25

Which of the following statements are true regarding highly interpretable models? (Select two.)

- **A. They usually compromise on model accuracy for the sake of interpretability.**
- **B. They are usually easier to explain to business stakeholders.**
- C. They are usually very good at solving non-linear problems.
- D. They are usually binary classifiers.
- E. They are usually referred to as "black box" models.

Answer: A,B

Explanation:

Explanation

Highly interpretable models are models that can provide clear and intuitive explanations for their predictions, such as decision trees, linear regression, or logistic regression. Some of the statements that are true regarding highly interpretable models are:

They are usually easier to explain to business stakeholders: Highly interpretable models can help communicate the logic and reasoning behind their predictions, which can increase trust and confidence among business stakeholders. For example, a decision tree can show how each feature contributes to a decision outcome, or a linear regression can show how each coefficient affects the dependent variable.

They usually compromise on model accuracy for the sake of interpretability: Highly interpretable models may not be able to capture complex or non-linear patterns in the data, which can reduce their accuracy and generalization. For example, a decision tree may overfit or underfit the data if it is too deep or too shallow, or a linear regression may not be able to model curved relationships between variables.

NEW QUESTION # 26

For a particular classification problem, you are tasked with determining the best algorithm among SVM, random forest, K-nearest neighbors, and a deep neural network. Each of the algorithms has similar accuracy on your data. The stakeholders indicate that they need a model that can convey each feature's relative contribution to the model's accuracy. Which is the best algorithm for this use case?

- A. K-nearest neighbors
- B. Deep neural network
- C. SVM
- **D. Random forest**

Answer: D

Explanation:

Explanation

Random forest is an ensemble learning method that combines multiple decision trees to create a more accurate and robust classifier or regressor. Random forest can convey each feature's relative contribution to the model's accuracy by measuring how much the prediction error increases when a feature is randomly permuted. This metric is called feature importance or Gini importance.

Random forest can also provide insights into the interactions and dependencies among features by visualizing the decision trees .

NEW QUESTION # 27

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: $\text{logit}(p) = \log(p/(1-p))$

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

Answer: C

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 # 28

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