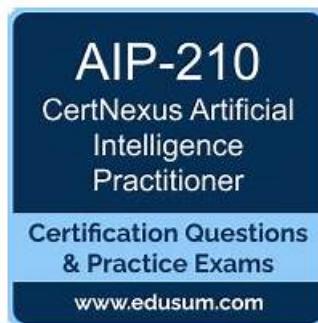


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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q30-Q35):

NEW QUESTION # 30

An organization sells house security cameras and has asked their data scientists to implement a model to detect human feces, as distinguished from animals, so they can alert the customers only when a human gets close to their house. Which of the following algorithms is an appropriate option with a correct reason?

- A. A decision tree algorithm, because the problem is a classification problem with a small number of features.

- B. Logistic regression, because this is a classification problem and our data is linearly separable.
- C. k-means, because this is a clustering problem with a small number of features.
- D. Neural network model, because this is a classification problem with a large number of features.

Answer: D

Explanation:

Explanation

Neural network models are suitable for classification problems with a large number of features, because they can learn complex and non-linear patterns from high-dimensional data. They can also handle image data, which is likely to be the input for the human face detection problem. Neural networks can also be trained using transfer learning, which can leverage pre-trained models on similar tasks and improve the accuracy and efficiency of the model. References: [Neural network - Wikipedia], [Transfer Learning - Machine Learning's Next Frontier]

NEW QUESTION # 31

A data scientist is tasked to extract business intelligence from primary data captured from the public. Which of the following is the most important aspect that the scientist cannot forget to include?

- A. Cybersecurity
- B. Data security
- C. Data privacy
- D. Cyberprotection

Answer: C

Explanation:

Data privacy is the right of individuals to control how their personal data is collected, used, shared, and protected. It also involves complying with relevant laws and regulations that govern the handling of personal data. Data privacy is especially important when extracting business intelligence from primary data captured from the public, as it may contain sensitive or confidential information that could harm the individuals if misused or breached.

NEW QUESTION # 32

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

Answer: D

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 # 33

You have a dataset with thousands of features, all of which are categorical. Using these features as predictors, you are tasked with creating a prediction model to accurately predict the value of a continuous dependent variable. Which of the following would be appropriate algorithms to use? (Select two.)

- A. K-means
- B. K-nearest neighbors
- C. Lasso regression
- D. Logistic regression
- E. Ridge regression

Answer: C,E

Explanation:

Lasso regression and ridge regression are both types of linear regression models that can handle high-dimensional and categorical data. They use regularization techniques to reduce the complexity of the model and avoid overfitting. Lasso regression uses L1 regularization, which adds a penalty term proportional to the absolute value of the coefficients to the loss function. This can shrink some coefficients to zero and perform feature selection. Ridge regression uses L2 regularization, which adds a penalty term proportional to the square of the coefficients to the loss function. This can shrink all coefficients towards zero and reduce multicollinearity. References: [Lasso (statistics) - Wikipedia], [Ridge regression - Wikipedia]

NEW QUESTION # 34

You create a prediction model with 96% accuracy. While the model's true positive rate (TPR) is performing well at 99%, the true negative rate (TNR) is only 50%. Your supervisor tells you that the TNR needs to be higher, even if it decreases the TPR. Upon further inspection, you notice that the vast majority of your data is truly positive.

What method could help address your issue?

- A. Principal components analysis
- B. Quality filtering
- C. Normalization
- D. **Oversampling**

Answer: D

Explanation:

Oversampling is a method that can help address the issue of imbalanced data, which is when one class is much more frequent than the other in the dataset. This can cause the model to be biased towards the majority class and have a low true negative rate.

Oversampling involves creating synthetic samples of the minority class or replicating existing samples to balance the class distribution. This can help the model learn more from the minority class and improve the true negative rate. References: [Handling imbalanced datasets in machine learning], [Oversampling and undersampling in data analysis - Wikipedia]

NEW QUESTION # 35

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