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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q48-Q53):

NEW QUESTION # 48

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

Answer: C

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 # 49

What is the primary benefit of the Federated Learning approach to machine learning?

- **A. It protects the privacy of the user's data while providing well-trained models.**
- B. It uses large, centralized data stores to train complex machine learning models.
- C. It requires less computation to train the same model using a traditional approach.
- D. It does not require a labeled dataset to solve supervised learning problems.

Answer: A

Explanation:

Federated learning is a distributed approach to machine learning that allows multiple parties to collaboratively train a model without sharing their data with each other or a central server. This protects the privacy of the user's data while still enabling well-trained models that can benefit from diverse and large-scale datasets.

References: [Federated Learning - Wikipedia], [Federated Learning for Mobile Keyboard Prediction - Google AI Blog]

NEW QUESTION # 50

We are using the k-nearest neighbors algorithm to classify the new data points. The features are on different scales. Which method can help us to solve this problem?

- **A. Normalization**
- B. Standardization
- C. Log transformation
- D. Square-root transformation

Answer: A

Explanation:

Explanation

Normalization is a method that can help us to solve the problem of features being on different scales when using the k-nearest neighbors algorithm. Normalization is a technique that rescales the values of features to a common range, such as [0, 1] or [-1, 1]. Normalization can help reduce the influence or dominance of some features over others, as well as improve the accuracy and performance of the algorithm.

NEW QUESTION # 51

Which of the following text vectorization methods is appropriate and correctly defined for an English-to-Spanish translation machine?

- A. Using Word2vec because in translation machines, we do not care about the order of the words.
- B. Using TF-IDF because in translation machines, we need to consider the order of the words.
- C. Using TF-IDF because in translation machines, we do not care about the order of the words.
- **D. Using Word2vec because in translation machines, we need to consider the order of the words.**

Answer: D

Explanation:

Text vectorization is a technique that converts text into numerical vectors that can be used by machine learning models. Text vectorization can use different methods to represent text features, such as word frequency, word order, word meaning, or word context. Some of the common text vectorization methods are:

* TF-IDF: TF-IDF (term frequency-inverse document frequency) is a method that assigns a weight to each word based on its frequency in a document and its rarity across a collection of documents. TF-IDF can capture the importance and relevance of words for a given topic or domain, but it does not consider the order or meaning of words.

* Word2vec: Word2vec is a method that learns a vector representation for each word based on its context in a large corpus of text. Word2vec can capture the semantic and syntactic similarity and relationships among words, as well as preserve the order of words. For an English-to-Spanish translation machine, using Word2vec would be appropriate and correctly defined, because in translation machines, we need to consider the order of the words, as well as their meaning and context.

NEW QUESTION # 52

Which of the following is the definition of accuracy?

- A. $(\text{True Positives} + \text{True Negatives}) / \text{Total Predictions}$
- B. $\text{True Positives} / (\text{True Positives} + \text{False Negatives})$
- C. $(\text{True Positives} + \text{False Positives}) / \text{Total Predictions}$
- D. $\text{True Positives} / (\text{True Positives} + \text{False Positives})$

Answer: A

Explanation:

Accuracy is a measure of how well a classifier can correctly predict the class of an instance. Accuracy is calculated by dividing the number of correct predictions (true positives and true negatives) by the total number of predictions. True positives are instances that are correctly predicted as positive (belonging to the target class). True negatives are instances that are correctly predicted as negative (not belonging to the target class).

NEW QUESTION # 53

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