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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models
Topic 2	<ul style="list-style-type: none">• Transform numerical and categorical data• Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 3	<ul style="list-style-type: none">• Identify potential ethical concerns• Analyze machine learning system use cases
Topic 4	<ul style="list-style-type: none">• Address business risks, ethical concerns, and related concepts in training and tuning• Work with textual, numerical, audio, or video data formats

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Quiz 2026 AIP-210 Valid Dumps Pdf & Unparalleled Latest CertNexus Certified Artificial Intelligence Practitioner (CAIP) Exam Pdf

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q45-Q50):

NEW QUESTION # 45

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 (Homoscedasticity)
- **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 # 46

Word Embedding describes a task in natural language processing (NLP) where:

- A. Words are featurized by taking a matrix of bigram counts.
- B. Words are grouped together into clusters and then represented by word cluster membership.
- **C. Words are converted into numerical vectors.**
- D. Words are featurized by taking a histogram of letter counts.

Answer: C

Explanation:

Explanation

Word embedding is a task in natural language processing (NLP) where words are converted into numerical vectors that represent their meaning, usage, or context. Word embedding can help reduce the dimensionality and sparsity of text data, as well as enable various operations and comparisons among words based on their vector representations. Some of the common methods for word embedding are:

One-hot encoding: One-hot encoding is a method that assigns a unique binary vector to each word in a vocabulary. The vector has only one element with a value of 1 (the hot bit) and the rest with a value of 0.

0. One-hot encoding can create distinct and orthogonal vectors for each word, but it does not capture any semantic or syntactic information about words.

Word2vec: Word2vec is a method that learns a dense and continuous 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, such as synonyms, antonyms, analogies, or associations.

GloVe: GloVe (Global Vectors for Word Representation) is a method that combines the advantages of count-based methods (such as TF-IDF) and predictive methods (such as Word2vec) to create word vectors. GloVe can leverage both global and local information from a large corpus of text to capture the co-occurrence patterns and probabilities of words.

NEW QUESTION # 47

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

- A. Clustering

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

Answer: D

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 # 48

Which of the following best describes distributed artificial intelligence?

- A. It uses a centralized system to speak to decentralized nodes.
- B. It intelligently pre-distributes the weight of starting a neural network.
- C. It relies on a distributed system that performs robust computations across a network of unreliable nodes.
- D. It does not require hyperparameter tuning because the distributed nature accounts for the bias.

Answer: C

Explanation:

Explanation

Distributed artificial intelligence (DAI) is a subfield of artificial intelligence that studies how multiple intelligent agents can coordinate and cooperate to achieve a common goal or solve a complex problem. DAI relies on a distributed system that performs robust computations across a network of unreliable nodes, such as sensors, robots, or humans. DAI can handle large-scale, dynamic, and uncertain environments that are beyond the capabilities of a single agent. References: [Distributed artificial intelligence - Wikipedia], [Distributed Artificial Intelligence: An Overview]

NEW QUESTION # 49

Which of the following options is a correct approach for scheduling model retraining in a weather prediction application?

- A. When the input format changes
- B. Once a month
- C. When the input volume changes
- D. As new resources become available

Answer: A

Explanation:

Explanation

The input format is the way that the data is structured, organized, and presented to the model. For example, the input format could be a CSV file, an image file, or a JSON object. The input format can affect how the model interprets and processes the data, and therefore how it makes predictions. When the input format changes, it may require retraining the model to adapt to the new format and ensure its accuracy and reliability. For example, if the weather prediction application switches from using numerical values to categorical values for some features, such as wind direction or cloud cover, it may need to retrain the model to handle these changes

NEW QUESTION # 50

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