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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Design machine and deep learning models• Explain data collection• transformation process in ML workflow
Topic 2	<ul style="list-style-type: none">• Identify potential ethical concerns• Analyze machine learning system use cases
Topic 3	<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
Topic 4	<ul style="list-style-type: none">• Understanding the Artificial Intelligence Problem• Analyze the use cases of ML algorithms to rank them by their success probability
Topic 5	<ul style="list-style-type: none">• Recognize relative impact of data quality and size to algorithms• Engineering Features for Machine Learning

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q73-Q78):

NEW QUESTION # 73

Which of the following scenarios is an example of entanglement in ML pipelines?

- A. Add a new pipeline for retraining the model in the model training step.
- **B. Change in normalization function in the feature engineering step.**
- C. Add a new method for drift detection in the model evaluation step.
- D. Change the way output is visualized in the monitoring step.

Answer: B

Explanation:

Explanation

Entanglement in ML pipelines occurs when a change in one step affects other steps that depend on it.

Changing the normalization function in the feature engineering step would affect the model training and evaluation steps, as they rely on the features generated by the feature engineering step. Therefore, this scenario is an example of entanglement in ML pipelines.

The other scenarios are not examples of entanglement, as they do not affect other steps in the pipeline.

NEW QUESTION # 74

You and your team need to process large datasets of images as fast as possible for a machine learning task.

The project will also use a modular framework with extensible code and an active developer community.

Which of the following would BEST meet your needs?

- **A. Caffe**
- B. Keras
- C. TensorBoard
- D. Microsoft Cognitive Services

Answer: A

Explanation:

Explanation

Caffe is a deep learning framework that is designed for speed and modularity. It can process large datasets of images efficiently and supports various types of neural networks. It also has a large and active developer community that contributes to its code base and documentation. Caffe is suitable for image processing tasks such as classification, segmentation, detection, and recognition

NEW QUESTION # 75

A company is developing a merchandise sales application. The product team uses training data to teach the AI model predicting sales, and discovers emergent bias. What caused the biased results?

- **A. The AI model was trained in winter and applied in summer.**
- B. The team set flawed expectations when training the model.
- C. The training data used was inaccurate.
- D. The application was migrated from on-premise to a public cloud.

Answer: A

Explanation:

Explanation

Emergent bias is a type of bias that arises when an AI model encounters new or different data or scenarios that were not present or accounted for during its training or development. Emergent bias can cause the model to make inaccurate or unfair predictions or decisions, as it may not be able to generalize well to new situations or adapt to changing conditions. One possible cause of emergent bias is seasonality, which means that some variables or patterns in the data may vary depending on the time of year. For example, if an AI model for merchandise sales prediction was trained in winter and applied in summer, it may produce biased results due to differences in customer behavior, demand, or preferences.

NEW QUESTION # 76

Which of the following methods can be used to rebalance a dataset using the rebalance design pattern?

- A. Bagging
- **B. Weighted class**
- C. Stacking
- D. Boosting

Answer: B

Explanation:

Weighted class is a technique to rebalance a dataset by assigning different weights to each class, according to their frequency in the dataset. The weights are inversely proportional to the class frequency, meaning that rare classes have higher weights and common classes have lower weights. This helps to reduce the bias towards the majority class and improve the model performance on the minority class. References: 4. Data Validation - Building Machine Learning Pipelines, A guide to React design patterns - LogRocket Blog

NEW QUESTION # 77

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

- A. Words are grouped together into clusters and then represented by word cluster membership.
- B. Words are featurized by taking a matrix of bigram counts.
- **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. 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 # 78

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