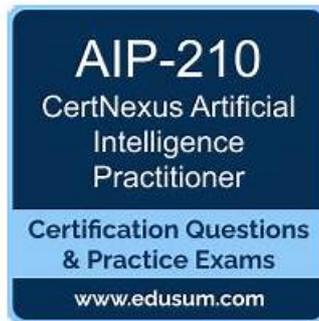


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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Identify potential ethical concerns• Analyze machine learning system use cases
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">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models
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
Topic 5	<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

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q46-Q51):

NEW QUESTION # 46

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

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

Answer: B

Explanation:

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 # 47

Why do data skews happen in the ML pipeline?

- A. There is a mismatch between live output data and offline data.
- B. Test and evaluation data are designed incorrectly.
- **C. There is a mismatch between live input data and offline data.**
- D. There is insufficient training data for evaluation.

Answer: C

Explanation:

Explanation

Data skews happen in the ML pipeline when the distribution or characteristics of the live input data differ from those of the offline data used for training and testing the model. This can lead to a degradation of the model performance and accuracy, as the model is not able to generalize well to new data. Data skews can be caused by various factors, such as changes in user behavior, data collection methods, data quality issues, or external events. References: What is training-serving skew in Machine Learning?, Data preprocessing for ML: options and recommendations

NEW QUESTION # 48

Which of the following algorithms is an example of unsupervised learning?

- **A. Principal components analysis**
- B. Neural networks
- C. Ridge regression
- D. Random forest

Answer: A

Explanation:

Unsupervised learning is a type of machine learning that involves finding patterns or structures in unlabeled data without any predefined outcome or feedback. Unsupervised learning can be used for various tasks, such as clustering, dimensionality reduction, anomaly detection, or association rule mining. Some of the common algorithms for unsupervised learning are:

* Principal components analysis: Principal components analysis (PCA) is a method that reduces the dimensionality of data by transforming it into a new set of orthogonal variables (principal components) that capture the maximum amount of variance in the data. PCA can help simplify and visualize high-dimensional data, as well as remove noise or redundancy from the data.

* K-means clustering: K-means clustering is a method that partitions data into k groups (clusters) based on their similarity or distance. K-means clustering can help discover natural or hidden groups in the data, as well as identify outliers or anomalies in the data.

* Apriori algorithm: Apriori algorithm is a method that finds frequent itemsets (sets of items that occur together frequently) and association rules (rules that describe how items are related or correlated) in transactional data. Apriori algorithm can help discover patterns or insights in the data, such as customer behavior, preferences, or recommendations.

NEW QUESTION # 49

Which of the following is a common negative side effect of not using regularization?

- A. Overfitting
- B. Low test accuracy
- C. Higher compute resources
- D. Slow convergence time

Answer: A

Explanation:

Explanation

Overfitting is a common negative side effect of not using regularization. Regularization is a technique that reduces the complexity of a model by adding a penalty term to the loss function, which prevents the model from learning too many parameters that may fit the noise in the training data. Overfitting occurs when the model performs well on the training data but poorly on the test data or new data, because it has memorized the training data and cannot generalize well. References: Regularization (mathematics) - Wikipedia, Overfitting in Machine Learning: What It Is and How to Prevent It

NEW QUESTION # 50

Normalization is the transformation of features:

- A. By subtracting from the mean and dividing by the standard deviation.
- B. To different scales from each other.
- C. Into the normal distribution.
- D. So that they are on a similar scale.

Answer: D

Explanation:

Normalization is the transformation of features so that they are on a similar scale, usually between 0 and 1 or -1 and 1. This can help reduce the influence of outliers and improve the performance of some machine learning algorithms that are sensitive to the scale of the features, such as gradient descent, k-means, or k-nearest neighbors. References: [Feature scaling - Wikipedia], [Normalization vs Standardization - Quantitative analysis]

NEW QUESTION # 51

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