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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Recognize relative impact of data quality and size to algorithms• Engineering Features for Machine Learning
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">• Train, validate, and test data subsets• Training and Tuning ML Systems and Models

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q66-Q71):

NEW QUESTION # 66

Which of the following is the primary purpose of hyperparameter optimization?

- A. Improves model interpretability
- **B. Controls the learning process of a given algorithm**
- C. Increases recall over precision
- D. Makes models easier to explain to business stakeholders

Answer: B

Explanation:

Explanation

Hyperparameter optimization is the process of finding the optimal values for hyperparameters that control the learning process of a given algorithm. Hyperparameters are parameters that are not learned by the algorithm but are set by the user before training. Hyperparameters can affect the performance and behavior of the algorithm, such as its speed, accuracy, complexity, or generalization. Hyperparameter optimization can help improve the efficiency and effectiveness of the algorithm by tuning its hyperparameters to achieve the best results.

NEW QUESTION # 67

You are developing a prediction model. Your team indicates they need an algorithm that is fast and requires low memory and low processing power. Assuming the following algorithms have similar accuracy on your data, which is most likely to be an ideal choice for the job?

- A. Support-vector machine
- B. Random forest
- C. Deep learning neural network
- **D. Ridge regression**

Answer: D

Explanation:

Ridge regression is a type of linear regression that adds a regularization term to the loss function to reduce overfitting and improve generalization. Ridge regression is fast and requires low memory and low processing power, as it only involves solving a system of linear equations. Ridge regression can also handle multicollinearity (high correlation among predictors) by shrinking the coefficients of correlated predictors.

NEW QUESTION # 68

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

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

Answer: C

Explanation:

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 # 69

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

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

Answer: C

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 # 70

An HR solutions firm is developing software for staffing agencies that uses machine learning.

The team uses training data to teach the algorithm and discovers that it generates lower employability scores for women. Also, it predicts that women, especially with children, are less likely to get a high-paying job.

Which type of bias has been discovered?

- A. Technical
- B. Preexisting
- C. Automation
- D. Emergent

Answer: B

Explanation:

Preexisting bias is a type of bias that originates from historical or social contexts, such as stereotypes, prejudices, or discriminations. Preexisting bias can affect the data or the algorithm used for machine learning, as well as the outcomes or decisions made by machine learning. Preexisting bias can cause unfair or harmful impacts on certain groups or individuals based on their attributes, such as gender, race, age, or disability³. In this case, the software that uses machine learning generates lower employability scores for women and predicts that women, especially with children, are less likely to get a high-paying job. This indicates that the software has preexisting bias against women, which may reflect the historical or social inequalities or expectations in the labor market.

NEW QUESTION # 71

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