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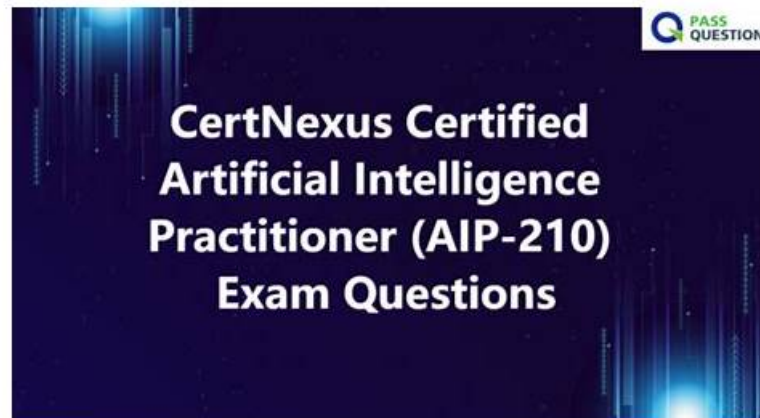
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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	• Transform numerical and categorical data • Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 2	• Recognize relative impact of data quality and size to algorithms • Engineering Features for Machine Learning
Topic 3	• Identify potential ethical concerns • Analyze machine learning system use cases

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Best Way to Pass CertNexus AIP-210 Certification Exam

It can be difficult to prepare for the CertNexus AIP-210 exam successfully, but with actual and updated CertNexus Certified Artificial Intelligence Practitioner (CAIP) (AIP-210) exam questions, it can be much simpler. The difference between successful and failed AIP-210 Certification Exam attempts can be determined by studying with real AIP-210 exam questions.

CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q44-Q49):

NEW QUESTION # 44
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. Automation

* B. Preexisting
* C. Technical
* D. Emergent

Answer: B

Explanation:
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 # 45
Which of the following algorithms is an example of unsupervised learning?

* A. Random forest
* B. Neural networks
* 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 # 46
Given a feature set with rows that contain missing continuous values, and assuming the data is normally distributed, what is the best way to fill in these missing features?

* A. Delete entire rows that contain any missing features.
* B. Fill in missing features with the average of observed values for that feature in the entire dataset.
* C. Delete entire columns that contain any missing features.
* D. Fill in missing features with random values for that feature in the training set.

Answer: B

Explanation:
Explanation
Missing values are a common problem in data analysis and machine learning, as they can affect the quality and reliability of the data and the model. There are various methods to deal with missing values, such as deleting, imputing, or ignoring them. One of the most common methods is imputing, which means replacing the missing values with some estimated values based on some criteria. For continuous variables, one of the simplest and most widely used imputation methods is to fill in the missing values with the mean (average) of the observed values for that variable in the entire dataset. This method can preserve the overall distribution and variance of the data, as well as avoid introducing bias or noise.

NEW QUESTION # 47

Which of the following is NOT a valid cross-validation method?

- A. Bootstrapping
- B. K-fold
- C. Leave-one-out
- D. Stratification

Answer: D

Explanation:
Explanation
Stratification is not a valid cross-validation method, but a technique to ensure that each subset of data has the same proportion of classes or labels as the original data. Stratification can be used in conjunction with cross-validation methods such as k-fold or leave-one-out to preserve the class distribution and reduce bias or variance in the validation results. Bootstrapping, k-fold, and leave-one-out are all valid cross-validation methods that use different ways of splitting and resampling the data to estimate the performance of a machine learning model.

NEW QUESTION # 48

Which of the following items should be included in a handover to the end user to enable them to use and run a trained model on their own system? (Select three.)

- A. README document
- B. Information on the folder structure in your local machine
- C. Sample input and output data files
- D. Link to a GitHub repository of the codebase
- E. Intermediate data files

Answer: A,C,D

Explanation:
A handover is the process of transferring the ownership and responsibility of an ML system from one party to another, such as from the developers to the end users. A handover should include all the necessary information and resources that enable the end users to use and run a trained model on their own system. Some of the items that should be included in a handover are:
* Link to a GitHub repository of the codebase: A GitHub repository is an online platform that hosts the source code and version control of an ML system. A link to a GitHub repository can provide the end users with access to the latest and most updated version of the codebase, as well as the history and documentation of the changes made to the code.
* README document: A README document is a text file that provides an overview and instructions for an ML system. A README document can include information such as the purpose, features, requirements, installation, usage, testing, troubleshooting, and license of the system.
* Sample input and output data files: Sample input and output data files are data files that contain examples of valid inputs and expected outputs for an ML system. Sample input and output data files can help the end users understand how to use and run the system, as well as verify its functionality and performance.

NEW QUESTION # 49

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