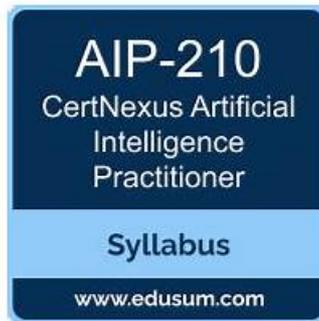


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CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">• Recognize relative impact of data quality and size to algorithms• Engineering Features for Machine Learning
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">• Transform numerical and categorical data• Address business risks, ethical concerns, and related concepts in operationalizing the model
Topic 5	<ul style="list-style-type: none">• Identify potential ethical concerns• Analyze machine learning system use cases

Topic 6	<ul style="list-style-type: none">• Design machine and deep learning models• Explain data collection• transformation process in ML workflow
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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q57-Q62):

NEW QUESTION # 57

Normalization is the transformation of features:

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

Answer: B

Explanation:

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 # 58

Why do data skews happen in the ML pipeline?

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

Answer: A

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 # 59

Which two of the following statements about the beta value in an A/B test are accurate? (Select two.)

- A. The Beta value is the rate of type I errors for the test.

- B. The Beta in an Alpha/Beta test represents one of the two variants of the A/B test.
- **C. The Beta value is the rate of type II errors for the test.**
- D. The statistical power of a test is the inverse of the Beta value, or 1 - Beta.

Answer: C

Explanation:

Explanation

The Beta value in an A/B test is the probability of making a type II error, which is failing to reject the null hypothesis when it is false.

The statistical power of a test is the probability of correctly rejecting the null hypothesis when it is false, which is equal to 1 - Beta.

References: Formulas for Bayesian A/B Testing - Evan Miller, The Practical Guide To AB testing statistics | Convertize

NEW QUESTION # 60

A market research team has ratings from patients who have a chronic disease, on several functional, physical, emotional, and professional needs that stay unmet with the current therapy. The dataset also captures ratings on how the disease affects their day-to-day activities.

A pharmaceutical company is introducing a new therapy to cure the disease and would like to design their marketing campaign such that different groups of patients are targeted with different ads. These groups should ideally consist of patients with similar unmet needs.

Which of the following algorithms should the market research team use to obtain these groups of patients?

- A. Logistic regression
- B. k-nearest neighbors
- **C. k-means clustering**
- D. Naive-Bayes

Answer: C

Explanation:

k-means clustering is an algorithm that should be used by the market research team to obtain groups of patients with similar unmet needs. k-means clustering is an unsupervised learning technique that partitions the data into k clusters based on the similarity of the features. The algorithm iteratively assigns each data point to the cluster with the nearest centroid and updates the centroid until convergence. k-means clustering can help identify patterns and segments in the data that may not be obvious or intuitive. References: [K-means clustering - Wikipedia], [How to Run K-Means Clustering in Python]

NEW QUESTION # 61

We are using the k-nearest neighbors algorithm to classify the new data points. The features are on different scales.

Which method can help us to solve this problem?

- **A. Normalization**
- B. Standardization
- C. Log transformation
- D. Square-root transformation

Answer: A

Explanation:

Explanation

Normalization is a method that can help us to solve the problem of features being on different scales when using the k-nearest neighbors algorithm. Normalization is a technique that rescales the values of features to a common range, such as [0, 1] or [-1, 1]. Normalization can help reduce the influence or dominance of some features over others, as well as improve the accuracy and performance of the algorithm.

NEW QUESTION # 62

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