

CertNexus - AIP-210 - CertNexus Certified Artificial Intelligence Practitioner (CAIP) High Hit-Rate Exam Training



Certified Artificial Intelligence (AI) Practitioner (Exam AIP-210)

Course Number: CNX0016

Course Length: 5 days

Overview:

Artificial intelligence (AI) and machine learning (ML) have become essential parts of the toolset for many organizations. When used effectively, these tools provide actionable insights that drive critical decisions and enable organizations to create exciting, new, and innovative products and services. This course shows you how to apply various approaches and algorithms to solve business problems through AI and ML, all while following a methodical workflow for developing data-driven solutions.

Course Objectives:

In this course, you will develop AI solutions for business problems.

You will:

- Solve a given business problem using AI and ML.
- Prepare data for use in machine learning.
- Train, evaluate, and tune a machine learning model.
- Build linear regression models.
- Build forecasting models.
- Build classification models using logistic regression and k-nearest neighbor.
- Build clustering models.
- Build classification and regression models using decision trees and random forests.
- Build classification and regression models using support-vector machines (SVMs).
- Build artificial neural networks for deep learning.
- Put machine learning models into operation using automated processes.
- Maintain machine learning pipelines and models while they are in production.

Target Student:

The skills covered in this course converge on four areas—software development, IT operations, applied math and statistics, and business analysis. Target students for this course should be looking to build upon their

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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q27-Q32):

NEW QUESTION # 27

In general, models that perform their tasks:

- A. Less accurately are neither more nor less robust against adversarial attacks.
- **B. More accurately are less robust against adversarial attacks.**
- C. Less accurately are less robust against adversarial attacks.
- D. More accurately are neither more nor less robust against adversarial attacks.

Answer: B

Explanation:

Adversarial attacks are malicious attempts to fool or manipulate machine learning models by adding small perturbations to the input data that are imperceptible to humans but can cause significant changes in the model output. In general, models that perform their tasks more accurately are less robust against adversarial attacks, because they tend to have higher confidence in their predictions and are more sensitive to small changes in the input data. References: [Adversarial machine learning - Wikipedia], [Why Are Machine Learning Models Susceptible to Adversarial Attacks? | by Anirudh Jain | Towards Data Science]

NEW QUESTION # 28

Which of the following occurs when a data segment is collected in such a way that some members of the intended statistical population are less likely to be included than others?

- A. Algorithmic bias
- B. Systematic value distortion
- C. Stereotype bias
- **D. Sampling bias**

Answer: D

Explanation:

Explanation

Sampling bias occurs when a data segment is collected in such a way that some members of the intended statistical population are less likely to be included than others. This can result in a sample that is not representative of the population and may lead to inaccurate or misleading conclusions. Sampling bias can be caused by various factors, such as non-random sampling methods, non-response, self-selection, or convenience sampling. References: [Sampling bias - Wikipedia], [What is Sampling Bias? Definition, Types and Examples]

NEW QUESTION # 29

You have a dataset with many features that you are using to classify a dependent variable. Because the sample size is small, you are worried about overfitting. Which algorithm is ideal to prevent overfitting?

- A. Decision tree
- B. XGBoost
- **C. Random forest**
- D. Logistic regression

Answer: C

Explanation:

Explanation

Random forest is an algorithm that is ideal to prevent overfitting when using a dataset with many features and a small sample size. Random forest is an ensemble learning method that combines multiple decision trees to create a more robust and accurate model.

Random forest can prevent overfitting by introducing randomness and diversity into the model, such as by using bootstrap sampling (sampling with replacement) to create different subsets of data for each tree, or by using feature selection (choosing a random subset of features) to split each node in a tree.

NEW QUESTION # 30

R-squared is a statistical measure that:

- A. Expresses the extent to which two variables are linearly related.
- B. Combines precision and recall of a classifier into a single metric by taking their harmonic mean.
- C. Is the proportion of the variance for a dependent variable that's explained by independent variables.
- D. Represents the extent to which two random variables vary together.

Answer: C

Explanation:

R-squared is a statistical measure that indicates how well a regression model fits the data. R-squared is calculated by dividing the explained variance by the total variance. The explained variance is the amount of variation in the dependent variable that can be attributed to the independent variables. The total variance is the amount of variation in the dependent variable that can be observed in the data. R-squared ranges from 0 to 1, where 0 means no fit and 1 means perfect fit.

NEW QUESTION # 31

Which of the following unsupervised learning models can a bank use for fraud detection?

- A. DBSCAN
- B. Anomaly detection
- C. k-means
- D. Hierarchical clustering

Answer: B

Explanation:

Anomaly detection is an unsupervised learning technique that identifies outliers or abnormal patterns in data, which can be useful for fraud detection. Anomaly detection algorithms can learn the normal behavior of transactions and flag the ones that deviate significantly from the norm, indicating possible fraud.

NEW QUESTION # 32

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