Quiz 2026 CertNexus AIP-210: Updated CertNexus Certified Artificial Intelligence Practitioner (CAIP) New APP Simulations

Certified AI PRACTITIONER

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 AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	• Recognize relative impact of data quality and size to algorithms • Engineering Features for Machine Learning
Topic 2	• Identify potential ethical concerns • Analyze machine learning system use cases
Topic 3	• Address business risks, ethical concerns, and related concepts in training and tuning • Work with textual, numerical, audio, or video data formats
Topic 4	• Design machine and deep learning models • Explain data collection • transformation process in ML workflow

CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q83-Q88):

NEW QUESTION # 83
Which three security measures could be applied in different ML workflow stages to defend them against malicious activities? (Select three.)

- A. Monitor model degradation.
- B. Disable logging for model access.
- C. Use data encryption.
- D. Use max privilege to control access to ML artifacts.
- E. Launch ML Instances In a virtual private cloud (VPC).
- F. Use Secrets Manager to protect credentials.

Answer: C,E,F

Explanation:
Explanation
Security measures can be applied in different ML workflow stages to defend them against malicious activities, such as data theft, model tampering, or adversarial attacks. Some of the security measures are:
Launch ML Instances In a virtual private cloud (VPC): A VPC is a logically isolated section of a cloud provider's network that allows users to launch and control their own resources. By launching ML instances in a VPC, users can enhance the security and privacy of their data and models, as well as restrict the access and traffic to and from the instances.
Use data encryption: Data encryption is the process of transforming data into an unreadable format using a secret key or algorithm. Data encryption can protect the confidentiality, integrity, and availability of data at rest (stored in databases or files) or in transit (transferred over networks). Data encryption can prevent unauthorized access, modification, or leakage of sensitive data.
Use Secrets Manager to protect credentials: Secrets Manager is a service that helps users securely store, manage, and retrieve secrets, such as passwords, API keys, tokens, or certificates. Secrets Manager can help users protect their credentials from unauthorized access or exposure, as well as rotate them automatically to comply with security policies.

NEW QUESTION # 84
You have a dataset with thousands of features, all of which are categorical. Using these features as predictors, you are tasked with creating a prediction model to accurately predict the value of a continuous dependent variable. Which of the following would be appropriate algorithms to use? (Select two.)

- A. Ridge regression
- B. Logistic regression

- C. Lasso regression
- D. K-means
- E. K-nearest neighbors

Answer: A,C

Explanation:
Lasso regression and ridge regression are both types of linear regression models that can handle high- dimensional and categorical data. They use regularization techniques to reduce the complexity of the model and avoid overfitting. Lasso regression uses L1 regularization, which adds a penalty term proportional to the absolute value of the coefficients to the loss function. This can shrink some coefficients to zero and perform feature selection. Ridge regression uses L2 regularization, which adds a penalty term proportional to the square of the coefficients to the loss function. This can shrink all coefficients towards zero and reduce multicollinearity. References: [Lasso (statistics) - Wikipedia], [Ridge regression - Wikipedia]

NEW QUESTION # 85
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 columns that contain any missing features.
- B. Fill in missing features with random values for that feature in the training set.
- C. Delete entire rows that contain any missing features.
- D. Fill in missing features with the average of observed values for that feature in the entire dataset.

Answer: D

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 # 86
Which two of the following criteria are essential for machine learning models to achieve before deployment?
(Select two.)

- A. Complexity
- B. Data size
- C. Explainability
- D. Scalability
- E. Portability

Answer: C,D

Explanation:
Scalability and explainability are two criteria that are essential for ML models to achieve before deployment.
Scalability is the ability of an ML model to handle increasing amounts of data or requests without compromising its performance or quality. Scalability can help ensure that the model can meet the demand and expectations of users or customers, as well as adapt to changing conditions or environments. Explainability is the ability of an ML model to provide clear and intuitive explanations for its predictions or decisions.
Explainability can help increase trust and confidence among users or stakeholders, as well as enable accountability and responsibility for the model's actions and outcomes.

NEW QUESTION # 87
A data scientist is tasked to extract business intelligence from primary data captured from the public. Which of the following is the most important aspect that the scientist cannot forget to include?

- A. Data privacy
- B. Data security
- C. Cyberprotection
- D. Cybersecurity

Answer: A

Explanation:
Data privacy is the right of individuals to control how their personal data is collected, used, shared, and protected. It also involves complying with relevant laws and regulations that govern the handling of personal data. Data privacy is especially important when extracting business intelligence from primary data captured from the public, as it may contain sensitive or confidential information that could harm the individuals if misused or breached .

NEW QUESTION # 88
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