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## 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 (Q58-Q63):

### NEW QUESTION # 58

In general, models that perform their tasks:

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

Explanation:

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 # 59

For each of the last 10 years, your team has been collecting data from a group of subjects, including their age and numerous biomarkers collected from blood samples. You are tasked with creating a prediction model of age using the biomarkers as input. You start by performing a linear regression using all of the data over the 10- year period, with age as the dependent variable and the biomarkers as predictors.

Which assumption of linear regression is being violated?

- A. Normality
- B. Independence
- C. Equality of variance (Homoscedastidty)
- D. Linearity

**Answer: B**

Explanation:

Independence is an assumption of linear regression that states that the errors (residuals) of the model are independent of each other, meaning that they are not correlated or influenced by previous or subsequent errors. Independence can be violated when the data has serial correlation or autocorrelation, which means that the value of a variable at a given time depends on its previous or future values. This can happen when the data is collected over time (time series) or over space (spatial data). In this case, the data is collected over time from a group of subjects, which may introduce serial correlation among the errors.

### NEW QUESTION # 60

Which of the following describes a neural network without an activation function?

- A. A radial basis function kernel
- B. A form of a quantile regression
- C. An unsupervised learning technique
- D. A form of a linear regression

**Answer: D**

Explanation:

Explanation

A neural network without an activation function is equivalent to a form of a linear regression. A neural network is a computational model that consists of layers of interconnected nodes (neurons) that process inputs and produce outputs. An activation function is a

function that determines the output of a neuron based on its input. An activation function can introduce non-linearity into a neural network, which allows it to model complex and non-linear relationships between inputs and outputs. Without an activation function, a neural network becomes a linear combination of inputs and weights, which is essentially a linear regression model.

#### NEW QUESTION # 61

Which of the following is NOT an activation function?

- A. ReLU
- B. Sigmoid
- C. Additive
- D. Hyperbolic tangent

**Answer: C**

Explanation:

An activation function is a function that determines the output of a neuron in a neural network based on its input. An activation function can introduce non-linearity into a neural network, which allows it to model complex and non-linear relationships between inputs and outputs. Some of the common activation functions are:

\* Sigmoid: A sigmoid function is a function that maps any real value to a value between 0 and 1. It has an S-shaped curve and is often used for binary classification or probability estimation.

\* Hyperbolic tangent: A hyperbolic tangent function is a function that maps any real value to a value between -1 and 1. It has a similar shape to the sigmoid function but is symmetric around the origin. It is often used for regression or classification problems.

\* ReLU: A ReLU (rectified linear unit) function is a function that maps any negative value to 0 and any positive value to itself. It has a piecewise linear shape and is often used for hidden layers in deep neural networks.

Additive is not an activation function, but rather a term that describes a property of some functions. Additive functions are functions that satisfy the condition  $f(x+y) = f(x) + f(y)$  for any  $x$  and  $y$ . Additive functions are linear functions, which means they have a constant slope and do not introduce non-linearity.

#### NEW QUESTION # 62

A classifier has been implemented to predict whether or not someone has a specific type of disease.

Considering that only 1% of the population in the dataset has this disease, which measures will work the BEST to evaluate this model?

- A. Precision and recall
- B. Recall and explained variance
- C. Precision and accuracy
- D. Mean squared error

**Answer: A**

Explanation:

Explanation

Precision and recall are two measures that can evaluate the performance of a classifier, especially when the data is imbalanced.

Precision is the ratio of true positives (correctly predicted positive cases) to all predicted positive cases. Recall is the ratio of true positives to all actual positive cases. Precision and recall can help assess how well the classifier can identify the positive cases (the disease) and avoid false negatives (missed diagnosis) or false positives (unnecessary treatment).

#### NEW QUESTION # 63

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