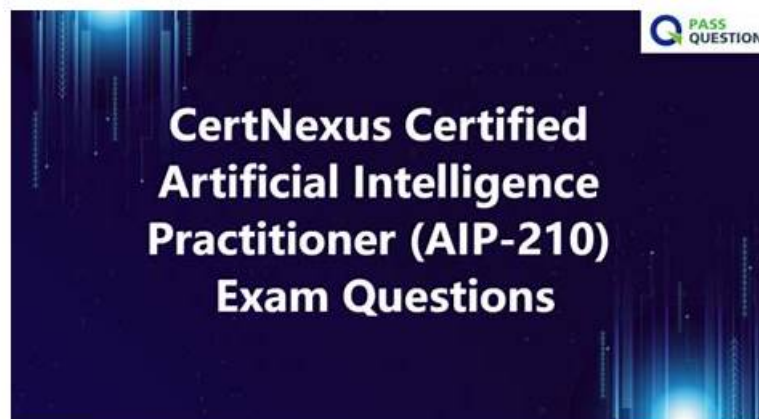


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CertNexus AIP-210 Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none">• Recognize relative impact of data quality and size to algorithms• Engineering Features for Machine Learning |
| Topic 2 | <ul style="list-style-type: none">• Transform numerical and categorical data• Address business risks, ethical concerns, and related concepts in operationalizing the model |
| Topic 3 | <ul style="list-style-type: none">• Design machine and deep learning models• Explain data collection• transformation process in ML workflow |

CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample

Questions (Q47-Q52):

NEW QUESTION # 47

Which of the following sentences is TRUE about the definition of cloud models for machine learning pipelines?

- A. Platform as a Service (PaaS) can provide some services within an application such as payment applications to create efficient results.
- B. Data as a Service (DaaS) can host the databases providing backups, clustering, and high availability.
- C. Infrastructure as a Service (IaaS) can provide CPU, memory, disk, network and GPU.
- **D. Software as a Service (SaaS) can provide AI practitioner data science services such as Jupyter notebooks.**

Answer: D

Explanation:

Explanation

Cloud models are service models that provide different levels of abstraction and control over computing resources in a cloud environment. Some of the common cloud models for machine learning pipelines are:

Software as a Service (SaaS): SaaS provides ready-to-use applications that run on the cloud provider's infrastructure and are accessible through a web browser or an API. SaaS can provide AI practitioner data science services such as Jupyter notebooks, which are web-based interactive environments that allow users to create and share documents that contain code, text, visualizations, and more.

Platform as a Service (PaaS): PaaS provides a platform that allows users to develop, run, and manage applications without worrying about the underlying infrastructure. PaaS can provide some services within an application such as payment applications to create efficient results.

Infrastructure as a Service (IaaS): IaaS provides access to fundamental computing resources such as servers, storage, networks, and operating systems. IaaS can provide CPU, memory, disk, network and GPU resources that can be used to run machine learning models and applications.

Data as a Service (DaaS): DaaS provides access to data sources that can be consumed by applications or users on demand. DaaS can host the databases providing backups, clustering, and high availability.

NEW QUESTION # 48

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

Answer: A

Explanation:

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 # 49

Which of the following describes a benefit of machine learning for solving business problems?

- A. Improving the quality of original data
- B. Increasing the quantity of original data
- **C. Increasing the speed of analysis**

- D. Improving the constraint of the problem

Answer: C

Explanation:

Increasing the speed of analysis is a benefit of machine learning for solving business problems. Machine learning is a branch of artificial intelligence that involves creating systems that can learn from data and make predictions or decisions. Machine learning can help increase the speed of analysis by automating and optimizing various tasks, such as data processing, feature extraction, model training, model evaluation, or model deployment. Machine learning can also help handle large and complex data sets that may be difficult or impractical to analyze manually or with traditional methods.

NEW QUESTION # 50

You are building a prediction model to develop a tool that can diagnose a particular disease so that individuals with the disease can receive treatment. The treatment is cheap and has no side effects. Patients with the disease who don't receive treatment have a high risk of mortality.

It is of primary importance that your diagnostic tool has which of the following?

- A. High positive predictive value
- B. High negative predictive value
- C. Low false positive rate
- **D. Low false negative rate**

Answer: D

Explanation:

A false negative is an error where a positive case (belonging to the target class) is incorrectly predicted as negative (not belonging to the target class). A false negative rate is the ratio of false negatives to all actual positive cases. A low false negative rate means that most of the positive cases are correctly identified by the classifier.

For a diagnostic tool that can diagnose a particular disease so that individuals with the disease can receive treatment, it is of primary importance that it has a low false negative rate. This is because false negatives can have serious consequences for patients who have the disease but do not receive treatment, such as increased risk of mortality or complications. A low false negative rate can ensure that most patients who have the disease are diagnosed correctly and receive timely treatment.

NEW QUESTION # 51

Which of the following is NOT an activation function?

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

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 # 52

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