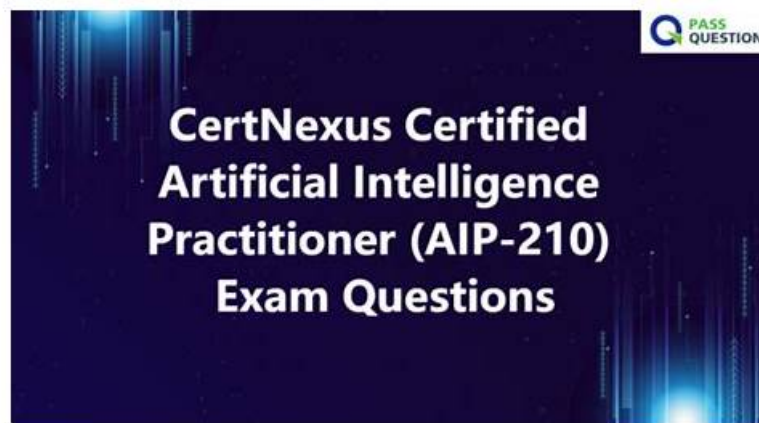


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CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q92-Q97):

NEW QUESTION # 92

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. Naive-Bayes

- D. k-means clustering

Answer: D

Explanation:

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 # 93

An AI system recommends New Year's resolutions. It has an ML pipeline without monitoring components. What retraining strategy would be BEST for this pipeline?

- A. Periodically every year
- B. When data drift is detected
- C. When concept drift is detected
- D. Periodically before New Year's Day and after New Year's Day

Answer: A

Explanation:

Explanation

Retraining is the process of updating an existing ML model with new or updated data to maintain or improve its performance and relevance. Retraining can help address various issues or challenges in ML systems, such as data drift, concept drift, model degradation, or changing requirements. Retraining can be done using different strategies, such as periodically, continuously, or on-demand.

For an AI system that recommends New Year's resolutions, retraining periodically every year would be the best strategy for this pipeline. This is because New Year's resolutions are seasonal and time-sensitive, meaning that they may vary depending on the year or the current situation. Retraining periodically every year can help ensure that the system's recommendations are up-to-date and relevant for each new year.

NEW QUESTION # 94

Which of the following is NOT an activation function?

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

Answer: B

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 # 95

In addition to understanding model performance, what does continuous monitoring of bias and variance help ML engineers to do?

- A. Respond to hidden attacks
- B. Recover from hidden attacks
- C. Detect hidden attacks
- **D. Prevent hidden attacks**

Answer: D

Explanation:

Explanation

Hidden attacks are malicious activities that aim to compromise or manipulate an ML system without being detected or noticed.

Hidden attacks can target different stages of an ML workflow, such as data collection, model training, model deployment, or model monitoring. Some examples of hidden attacks are data poisoning, backdoor attacks, model stealing, or adversarial examples.

Continuous monitoring of bias and variance can help ML engineers to prevent hidden attacks, as it can help them detect any anomalies or deviations in the data or the model's performance that may indicate a potential attack.

NEW QUESTION # 96

Which of the following is a privacy-focused law that an AI practitioner should adhere to while designing and adapting an AI system that utilizes personal data?

- A. Sarbanes Oxley (SOX)
- **B. General Data Protection Regulation (GDPR)**
- C. ISO/IEC 27001
- D. PCIDSS

Answer: B

Explanation:

Explanation

The General Data Protection Regulation (GDPR) is a privacy-focused law that an AI practitioner should adhere to while designing and adapting an AI system that utilizes personal data. The GDPR applies to any organization that processes personal data of individuals in the European Union (EU), regardless of where the organization is located. The GDPR grants individuals rights over their personal data, such as the right to access, rectify, erase, restrict, or object to its processing. The GDPR also imposes obligations on organizations that process personal data, such as the duty to obtain consent, conduct data protection impact assessments, implement data protection by design and by default, and ensure accountability and transparency. The GDPR also addresses some specific issues related to AI, such as automated decision-making, profiling, and data portability.

NEW QUESTION # 97

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