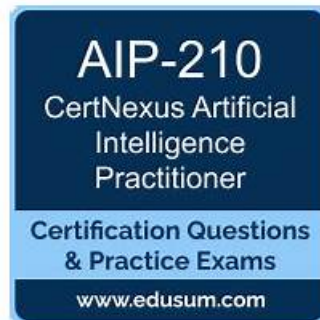


# Latest CertNexus - AIP-210 - New CertNexus Certified Artificial Intelligence Practitioner (CAIP) Braindumps Pdf



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## CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Understanding the Artificial Intelligence Problem</li><li>• Analyze the use cases of ML algorithms to rank them by their success probability</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Transform numerical and categorical data</li><li>• Address business risks, ethical concerns, and related concepts in operationalizing the model</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Identify potential ethical concerns</li><li>• Analyze machine learning system use cases</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• Train, validate, and test data subsets</li><li>• Training and Tuning ML Systems and Models</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Recognize relative impact of data quality and size to algorithms</li><li>• Engineering Features for Machine Learning</li></ul>

Topic 6	<ul style="list-style-type: none"> <li>• Address business risks, ethical concerns, and related concepts in training and tuning</li> <li>• Work with textual, numerical, audio, or video data formats</li> </ul>
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### CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q92-Q97):

#### NEW QUESTION # 92

Which of the following pieces of AI technology provides the ability to create fake videos?

- A. Long short-term memory (LSTM) networks
- **B. Generative adversarial networks (GAN)**
- C. Support-vector machines (SVM)
- D. Recurrent neural networks (RNN)

**Answer: B**

Explanation:

Generative adversarial networks (GAN) are a type of AI technology that can create fake videos, images, audio, or text that are realistic and indistinguishable from real ones. GAN consist of two neural networks: a generator and a discriminator. The generator tries to produce fake samples from random noise, while the discriminator tries to distinguish between real and fake samples. The two networks compete against each other in a game-like scenario, where the generator tries to fool the discriminator and the discriminator tries to catch the generator. Through this process, both networks improve their abilities until they reach an equilibrium where the generator can produce convincing fakes.

#### NEW QUESTION # 93

Which of the following best describes distributed artificial intelligence?

- A. It uses a centralized system to speak to decentralized nodes.
- B. It intelligently pre-distributes the weight of starting a neural network.
- C. It does not require hyperparameter tuning because the distributed nature accounts for the bias.
- **D. It relies on a distributed system that performs robust computations across a network of unreliable nodes.**

**Answer: D**

Explanation:

Explanation

Distributed artificial intelligence (DAI) is a subfield of artificial intelligence that studies how multiple intelligent agents can coordinate and cooperate to achieve a common goal or solve a complex problem. DAI relies on a distributed system that performs robust computations across a network of unreliable nodes, such as sensors, robots, or humans. DAI can handle large-scale, dynamic, and uncertain environments that are beyond the capabilities of a single agent. References: [Distributed artificial intelligence - Wikipedia], [Distributed Artificial Intelligence: An Overview]

#### NEW QUESTION # 94

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

- **A. Anomaly detection**

- B. k-means
- C. Hierarchical clustering
- D. DBSCAN

**Answer: A**

Explanation:

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 # 95

In which of the following scenarios is lasso regression preferable over ridge regression?

- **A. There are many features with no association with the dependent variable.**
- B. There is high collinearity among some of the features associated with the dependent variable.
- C. The sample size is much larger than the number of features.
- D. The number of features is much larger than the sample size.

**Answer: A**

Explanation:

Explanation

Lasso regression is a type of linear regression that adds a regularization term to the loss function to reduce overfitting and improve generalization. Lasso regression uses an L1 norm as the regularization term, which is the sum of the absolute values of the coefficients. Lasso regression can shrink some of the coefficients to zero, which effectively eliminates some of the features from the model. Lasso regression is preferable over ridge regression when there are many features with no association with the dependent variable, as it can perform feature selection and reduce the complexity and noise of the model.

#### NEW QUESTION # 96

Which of the following principles supports building an ML system with a Privacy by Design methodology?

- A. Collecting and processing the largest amount of data possible.
- **B. Understanding, documenting, and displaying data lineage.**
- C. Utilizing quasi-identifiers and non-unique identifiers, alone or in combination.
- D. Avoiding mechanisms to explain and justify automated decisions.

**Answer: B**

Explanation:

Data lineage is the process of tracking the origin, transformation, and usage of data throughout its lifecycle. It helps to ensure data quality, integrity, and provenance. Data lineage also supports the Privacy by Design methodology, which is a framework that aims to embed privacy principles into the design and operation of systems, processes, and products that involve personal data. By understanding, documenting, and displaying data lineage, an ML system can demonstrate how it collects, processes, stores, and deletes personal data in a transparent and accountable manner<sup>3</sup>.

#### NEW QUESTION # 97

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