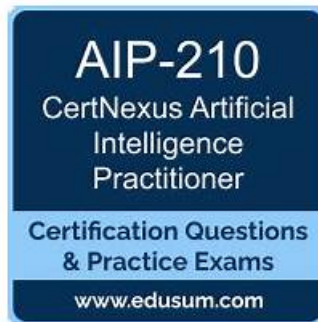


# Exam AIP-210 Passing Score & AIP-210 Pass Test Guide



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## CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
Topic 2	<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 3	<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 4	<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 5	<ul style="list-style-type: none"><li>• Identify potential ethical concerns</li><li>• Analyze machine learning system use cases</li></ul>
Topic 6	<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>

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## CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q79-Q84):

### NEW QUESTION # 79

What is the primary benefit of the Federated Learning approach to machine learning?

- A. It requires less computation to train the same model using a traditional approach.
- B. It uses large, centralized data stores to train complex machine learning models.
- **C. It protects the privacy of the user's data while providing well-trained models.**
- D. It does not require a labeled dataset to solve supervised learning problems.

**Answer: C**

Explanation:

Federated learning is a distributed approach to machine learning that allows multiple parties to collaboratively train a model without sharing their data with each other or a central server. This protects the privacy of the user's data while still enabling well-trained models that can benefit from diverse and large-scale datasets.

References: [Federated Learning - Wikipedia], [Federated Learning for Mobile Keyboard Prediction - Google AI Blog]

### NEW QUESTION # 80

A healthcare company experiences a cyberattack, where the hackers were able to reverse-engineer a dataset to break confidentiality.

Which of the following is TRUE regarding the dataset parameters?

- **A. The model is overfitted and trained on a low quantity of patient records.**
- B. The model is underfitted and trained on a high quantity of patient records.
- C. The model is underfitted and trained on a low quantity of patient records.
- D. The model is overfitted and trained on a high quantity of patient records.

**Answer: A**

Explanation:

Overfitting is a problem that occurs when a model learns too much from the training data and fails to generalize well to new or unseen data. Overfitting can result from using a low quantity of training data, a high complexity of the model, or a lack of regularization. Overfitting can also increase the risk of reverse-engineering a dataset from a model's outputs, as the model may reveal too much information about the specific features or patterns of the training data. This can break the confidentiality of the data and expose sensitive information about the individuals in the dataset .

### NEW QUESTION # 81

You have a dataset with many features that you are using to classify a dependent variable. Because the sample size is small, you are worried about overfitting. Which algorithm is ideal to prevent overfitting?

- A. XGBoost
- B. Decision tree
- **C. Random forest**
- D. Logistic regression

**Answer: C**

### NEW QUESTION # 82

Which of the following text vectorization methods is appropriate and correctly defined for an English-to-Spanish translation machine?

- A. Using TF-IDF because in translation machines, we do not care about the order of the words.
- B. Using Word2vec because in translation machines, we do not care about the order of the words.
- **C. Using Word2vec because in translation machines, we need to consider the order of the words.**
- D. Using TF-IDF because in translation machines, we need to consider the order of the words.

**Answer: C**

Explanation:

Explanation

Text vectorization is a technique that converts text into numerical vectors that can be used by machine learning models. Text vectorization can use different methods to represent text features, such as word frequency, word order, word meaning, or word context. Some of the common text vectorization methods are:

TF-IDF: TF-IDF (term frequency-inverse document frequency) is a method that assigns a weight to each word based on its frequency in a document and its rarity across a collection of documents. TF-IDF can capture the importance and relevance of words for a given topic or domain, but it does not consider the order or meaning of words.

Word2vec: Word2vec is a method that learns a vector representation for each word based on its context in a large corpus of text.

Word2vec can capture the semantic and syntactic similarity and relationships among words, as well as preserve the order of words. For an English-to-Spanish translation machine, using Word2vec would be appropriate and correctly defined, because in translation machines, we need to consider the order of the words, as well as their meaning and context.

### NEW QUESTION # 83

In general, models that perform their tasks:

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

**Answer: B**

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 # 84

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