

# Free PDF Newest CertNexus - AIP-210 - CertNexus Certified Artificial Intelligence Practitioner (CAIP) Official Cert Guide



## 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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It would take a lot of serious effort to pass the CertNexus Certified Artificial Intelligence Practitioner (CAIP) (AIP-210) exam, therefore it wouldn't be simple. So, you have to prepare yourself for this. But since we are here to assist you, you need not worry about how you will study for the CertNexus Certified Artificial Intelligence Practitioner (CAIP) (AIP-210) exam dumps. You can get help from us on how to get ready for the CertNexus Certified Artificial Intelligence Practitioner (CAIP) (AIP-210) exam questions. We will accomplish this objective by giving you access to some excellent AIP-210 practice test material that will enable you to get ready for the CertNexus Certified Artificial Intelligence Practitioner (CAIP) (AIP-210) exam dumps.

## CertNexus AIP-210 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"><li>• Identify potential ethical concerns</li><li>• Analyze machine learning system use cases</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>• 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 5	<ul style="list-style-type: none"> <li>• Design machine and deep learning models</li> <li>• Explain data collection</li> <li>• transformation process in ML workflow</li> </ul>

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## CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q46-Q51):

### NEW QUESTION # 46

Which of the following scenarios is an example of entanglement in ML pipelines?

- A. Add a new method for drift detection in the model evaluation step.
- **B. Change in normalization function in the feature engineering step.**
- C. Change the way output is visualized in the monitoring step.
- D. Add a new pipeline for retraining the model in the model training step.

**Answer: B**

Explanation:

Entanglement in ML pipelines occurs when a change in one step affects other steps that depend on it.

Changing the normalization function in the feature engineering step would affect the model training and evaluation steps, as they rely on the features generated by the feature engineering step. Therefore, this scenario is an example of entanglement in ML pipelines.

The other scenarios are not examples of entanglement, as they do not affect other steps in the pipeline.

### NEW QUESTION # 47

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

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

**Answer: A**

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

Which of the following can benefit from deploying a deep learning model as an embedded model on edge devices?

- A. A more complex model
- B. Increase in data bandwidth consumption
- C. Reduction in latency
- D. Guaranteed availability of enough space

**Answer: C**

Explanation:

Latency is the time delay between a request and a response. Latency can affect the performance and user experience of an application, especially when real-time or near-real-time responses are required. Deploying a deep learning model as an embedded model on edge devices can reduce latency, as the model can run locally on the device without relying on network connectivity or cloud servers. Edge devices are devices that are located at the edge of a network, such as smartphones, tablets, laptops, sensors, cameras, or drones.

#### NEW QUESTION # 49

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

**Answer: B**

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 # 50

Which of the following is the definition of accuracy?

- A. True Positives / (True Positives + False Positives)
- B. (True Positives + True Negatives) / Total Predictions
- C. (True Positives + False Positives) / Total Predictions
- D. True Positives / (True Positives + False Negatives)

**Answer: B**

Explanation:

Explanation

Accuracy is a measure of how well a classifier can correctly predict the class of an instance. Accuracy is calculated by dividing the number of correct predictions (true positives and true negatives) by the total number of predictions. True positives are instances that are correctly predicted as positive (belonging to the target class). True negatives are instances that are correctly predicted as negative (not belonging to the target class).

## NEW QUESTION # 51

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