

# AIP-210 Training Online, Dump AIP-210 File



## 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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## 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>• Identify potential ethical concerns</li><li>• Analyze machine learning system use cases</li></ul>
Topic 3	<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 4	<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 (Q73-Q78):

#### NEW QUESTION # 73

A company is developing a merchandise sales application. The product team uses training data to teach the AI model predicting sales, and discovers emergent bias. What caused the biased results?

- A. The team set flawed expectations when training the model.
- **B. The AI model was trained in winter and applied in summer.**
- C. The training data used was inaccurate.
- D. The application was migrated from on-premise to a public cloud.

**Answer: B**

Explanation:

Explanation

Emergent bias is a type of bias that arises when an AI model encounters new or different data or scenarios that were not present or accounted for during its training or development. Emergent bias can cause the model to make inaccurate or unfair predictions or decisions, as it may not be able to generalize well to new situations or adapt to changing conditions. One possible cause of emergent bias is seasonality, which means that some variables or patterns in the data may vary depending on the time of year. For example, if an AI model for merchandise sales prediction was trained in winter and applied in summer, it may produce biased results due to differences in customer behavior, demand, or preferences.

#### NEW QUESTION # 74

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. Naive-Bayes
- B. Logistic regression
- C. k-nearest neighbors
- **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 # 75

Which of the following are true about the transform-design pattern for a machine learning pipeline? (Select three.) It aims to separate inputs from features.

- A. It represents steps in the pipeline with a directed acyclic graph (DAG).
- B. It ensures reproducibility.
- C. It transforms the output data after production.
- D. It encapsulates the processing steps of ML pipelines.
- E. It seeks to isolate individual steps of ML pipelines.

**Answer: B,D,E**

Explanation:

The transform-design pattern for ML pipelines aims to separate inputs from features, encapsulate the processing steps of ML pipelines, and represent steps in the pipeline with a DAG. These goals help to make the pipeline modular, reusable, and easy to understand. The transform-design pattern does not seek to isolate individual steps of ML pipelines, as this would create entanglement and dependency issues. It also does not transform the output data after production, as this would violate the principle of separation of concerns.

### NEW QUESTION # 76

When working with textual data and trying to classify text into different languages, which approach to representing features makes the most sense?

- A. Bag of bigrams (2 letter pairs)
- B. Bag of words model with TF-IDF
- C. Clustering similar words and representing words by group membership
- D. Word2Vec algorithm

**Answer: A**

Explanation:

A bag of bigrams (2 letter pairs) is an approach to representing features for textual data that involves counting the frequency of each pair of adjacent letters in a text. For example, the word "hello" would be represented as {"he": 1, "el": 1, "ll": 1, "lo": 1}. A bag of bigrams can capture some information about the spelling and structure of words, which can be useful for identifying the language of a text. For example, some languages have more common bigrams than others, such as "th" in English or "ch" in German.

### NEW QUESTION # 77

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

**Answer: C**

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 # 78

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