

AIP-210試験の準備方法 | 一番優秀なAIP-210的中問題集試験 | 素晴らしいCertNexus Certified Artificial Intelligence Practitioner (CAIP)専門知識



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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最新のCertNexus AIP-210スタディガイドが作成されていることをご注意ください。これらの試験教材は高い合格率です。AIP-210学習ガイドは、今後の試験に最適な支援になると確信しています。「ノーパス全額返金」を保証します。過去の失敗について落ち込んでいて、有効なAIP-210学習ガイドを探したいと思う場合は、間違いなく100%合格として試験資料に返信することをお勧めします。私たちのAIP-210学習ガイドに対する何千もの候補者の選択があなたの賢明な決定です。

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>> AIP-210的中問題集 <<

CertNexus AIP-210専門知識、AIP-210復習資料

なにごとによらず初手は難しいです、どのようにCertNexus AIP-210試験への復習を始めて悩んでいますか。我々のCertNexus AIP-210問題集を購入するのはあなたの試験に準備する第一歩です。我々の提供するCertNexus AIP-210問題集はあなたの需要に満足できるだけでなく、試験に合格する必要があることです。あなたはまだ躊躇しているなら、It-PassportsのAIP-210問題集デモを参考しましょ。

CertNexus AIP-210 認定試験の出題範囲:

トピック	出題範囲
トピック 1	<ul style="list-style-type: none"> • Train, validate, and test data subsets • Training and Tuning ML Systems and Models
トピック 2	<ul style="list-style-type: none"> • Identify potential ethical concerns • Analyze machine learning system use cases
トピック 3	<ul style="list-style-type: none"> • Address business risks, ethical concerns, and related concepts in training and tuning • Work with textual, numerical, audio, or video data formats
トピック 4	<ul style="list-style-type: none"> • Transform numerical and categorical data • Address business risks, ethical concerns, and related concepts in operationalizing the model
トピック 5	<ul style="list-style-type: none"> • Understanding the Artificial Intelligence Problem • Analyze the use cases of ML algorithms to rank them by their success probability
トピック 6	<ul style="list-style-type: none"> • Recognize relative impact of data quality and size to algorithms • Engineering Features for Machine Learning

CertNexus Certified Artificial Intelligence Practitioner (CAIP) 認定 AIP-210 試験問題 (Q43-Q48):

質問 # 43

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. k-means clustering**
- B. Logistic regression
- C. k-nearest neighbors
- D. Naive-Bayes

正解: A

解説:

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]

質問 # 44

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

正解: A

解説:

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.

質問 # 45

Which of the following sentences is true about model evaluation and model validation in ML pipelines?

- A. Model evaluation is defined as an external component.
- B. Model evaluation and validation are the same.
- C. Model validation occurs before model evaluation.
- D. Model validation is defined as a set of tasks to confirm the model performs as expected.

正解: D

解説:

Model validation is the process of checking whether the model meets the specified requirements and quality standards. It involves testing the model on a validation dataset, which is different from the training and testing datasets, and evaluating the model performance using appropriate metrics. References: Overview of ML Pipelines | Machine Learning, MLOps: Continuous delivery and automation pipelines in machine learning

質問 # 46

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

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

正解: D

解説:

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.

質問 # 47

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

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

正解: A

解説:

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.

質問 # 48

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