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Certified AI PRACTITIONER

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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AIP-210 Dumps Materials & AIP-210 Exam Braindumps & AIP-210 Real Questions

In today's world, the CertNexus Certified Artificial Intelligence Practitioner (CAIP) (AIP-210) certification exam has become

increasingly popular, providing professionals with the opportunity to upskill and stay competitive in the tech industry. At Exam4Labs, we understand the importance of obtaining the CertNexus AIP-210 Certification in the CertNexus sector, where technological advancements constantly evolving.

CertNexus Certified Artificial Intelligence Practitioner (CAIP) Sample Questions (Q33-Q38):

NEW QUESTION # 33
An HR solutions firm is developing software for staffing agencies that uses machine learning.
The team uses training data to teach the algorithm and discovers that it generates lower employability scores for women. Also, it predicts that women, especially with children, are less likely to get a high-paying job.
Which type of bias has been discovered?

- A. Technical
- B. Emergent
- C. Preexisting
- D. Automation

Answer: C

Explanation:
Explanation
Preexisting bias is a type of bias that originates from historical or social contexts, such as stereotypes, prejudices, or discriminations. Preexisting bias can affect the data or the algorithm used for machine learning, as well as the outcomes or decisions made by machine learning. Preexisting bias can cause unfair or harmful impacts on certain groups or individuals based on their attributes, such as gender, race, age, or disability3. In this case, the software that uses machine learning generates lower employability scores for women and predicts that women, especially with children, are less likely to get a high-paying job. This indicates that the software has preexisting bias against women, which may reflect the historical or social inequalities or expectations in the labor market.

NEW QUESTION # 34
Which of the following occurs when a data segment is collected in such a way that some members of the intended statistical population are less likely to be included than others?

- A. Systematic value distortion
- B. Sampling bias
- C. Stereotype bias
- D. Algorithmic bias

Answer: B

Explanation:
Sampling bias occurs when a data segment is collected in such a way that some members of the intended statistical population are less likely to be included than others. This can result in a sample that is not representative of the population and may lead to inaccurate or misleading conclusions. Sampling bias can be caused by various factors, such as non-random sampling methods, non-response, self-selection, or convenience sampling. References: [Sampling bias - Wikipedia], [What is Sampling Bias? Definition, Types and Examples]

NEW QUESTION # 35
Your dependent variable Y is a count, ranging from 0 to infinity. Because Y is approximately log-normally distributed, you decide to log-transform the data prior to performing a linear regression.
What should you do before log-transforming Y?

- A. Explore the data for outliers.
- B. Subtract the mean of Y from all the Y values.
- C. Divide all the Y values by the standard deviation of Y.
- D. Add 1 to all of the Y values.

Answer: D

Explanation:
Explanation
Before log-transforming Y, we should add 1 to all of the Y values. This is because log transformation is undefined for zero or negative values, and some of the Y values may be zero. Adding 1 to all of the Y values can avoid this problem and ensure that the log transformation is valid and meaningful. Adding 1 to all of the Y values is also known as a log-plus-one transformation.

NEW QUESTION # 36
Which two techniques are used to build personas in the ML development lifecycle? (Select two.)

- A. Population resampling
- B. Population estimates
- C. Population variance
- D. Population triage
- E. Population regression

Answer: B,D

Explanation:
Explanation
Personas are fictional characters that represent the potential users or customers of an ML system. Personas can help understand the needs, goals, preferences, and behaviors of the target audience, as well as design and evaluate the system from their perspective. Some of the techniques that are used to build personas in the ML development lifecycle are:
Population estimates: Population estimates are statistical methods that estimate the size, characteristics, and distribution of a population based on a sample or a census. Population estimates can help identify and quantify the potential market segments and user groups for an ML system, as well as their demographics, locations, and behaviors.
Population triage: Population triage is a process of prioritizing and selecting the most relevant and representative personas for an ML system based on some criteria or metrics. Population triage can help focus on the key user needs and scenarios, as well as avoid creating too many or too few personas.

NEW QUESTION # 37
What is the open framework designed to help detect, respond to, and remediate threats in ML systems?

- A. OWASP Threat and Safeguard Matrix
- B. MITRE ATT&CK Matrix
- C. Threat Susceptibility Matrix
- D. Adversarial ML Threat Matrix

Answer: D

Explanation:
Explanation
The Adversarial ML Threat Matrix is an open framework designed to help detect, respond to, and remediate threats in ML systems. The Adversarial ML Threat Matrix is inspired by the MITRE ATT&CK Matrix1, which is a framework for describing cyberattacks across various stages of an attack lifecycle. The Adversarial ML Threat Matrix adapts this framework to address specific threats and vulnerabilities in ML systems, such as data poisoning, model stealing, model evasion, or model inversion2. The Adversarial ML Threat Matrix provides a structured way to organize and classify adversarial techniques, tactics, procedures, examples, and mitigations for ML systems2.

NEW QUESTION # 38
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