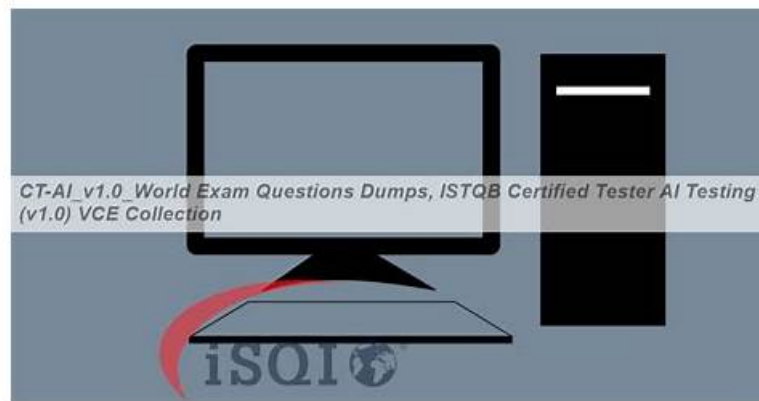


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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Quality Characteristics for AI-Based Systems: This section covers topics covered how to explain the importance of flexibility and adaptability as characteristics of AI-based systems and describes the vitality of managing evolution for AI-based systems. It also covers how to recall the characteristics that make it difficult to use AI-based systems in safety-related applications.
Topic 2	<ul style="list-style-type: none">Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 3	<ul style="list-style-type: none">Testing AI-Specific Quality Characteristics: In this section, the topics covered are about the challenges in testing created by the self-learning of AI-based systems.
Topic 4	<ul style="list-style-type: none">Methods and Techniques for the Testing of AI-Based Systems: In this section, the focus is on explaining how the testing of ML systems can help prevent adversarial attacks and data poisoning.
Topic 5	<ul style="list-style-type: none">Machine Learning ML: This section includes the classification and regression as part of supervised learning, explaining the factors involved in the selection of ML algorithms, and demonstrating underfitting and overfitting.
Topic 6	<ul style="list-style-type: none">systems from those required for conventional systems.
Topic 7	<ul style="list-style-type: none">Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q97-Q102):

NEW QUESTION # 97

Written requirements are given in text documents, which ONE of the following options is the BEST way to generate test cases from these requirements?

SELECT ONE OPTION

- A. GUI analysis by computer vision
- B. Analyzing source code for generating test cases
- C. Natural language processing on textual requirements
- D. Machine learning on logs of execution

Answer: C

Explanation:

When written requirements are given in text documents, the best way to generate test cases is by using Natural Language Processing (NLP). Here's why:

Natural Language Processing (NLP): NLP can analyze and understand human language. It can be used to process textual requirements to extract relevant information and generate test cases. This method is efficient in handling large volumes of textual data and identifying key elements necessary for testing.

Why Not Other Options:

Analyzing source code for generating test cases: This is more suitable for white-box testing where the code is available, but it doesn't apply to text-based requirements.

Machine learning on logs of execution: This approach is used for dynamic analysis based on system behavior during execution rather than static textual requirements.

GUI analysis by computer vision: This is used for testing graphical user interfaces and is not applicable to text-based requirements.

NEW QUESTION # 98

Which ONE of the following combinations of Training, Validation, Testing data is used during the process of learning/creating the model?

SELECT ONE OPTION

- A. Training data * test data
- B. Training data - validation data - test data
- C. Validation data - test data
- D. Training data - validation data

Answer: B

Explanation:

The process of developing a machine learning model typically involves the use of three types of datasets:

Training Data: This is used to train the model, i.e., to learn the patterns and relationships in the data.

Validation Data: This is used to tune the model's hyperparameters and to prevent overfitting during the training process.

Test Data: This is used to evaluate the final model's performance and to estimate how it will perform on unseen data.

Let's analyze each option:

A . Training data - validation data - test data

This option correctly includes all three types of datasets used in the process of creating and validating a model. The training data is used for learning, validation data for tuning, and test data for final evaluation.

B . Training data - validation data

This option misses the test data, which is crucial for evaluating the model's performance on unseen data after the training and validation phases.

C . Training data - test data

This option misses the validation data, which is important for tuning the model and preventing overfitting during training.

D . Validation data - test data

This option misses the training data, which is essential for the initial learning phase of the model.

Therefore, the correct answer is A because it includes all necessary datasets used during the process of learning and creating the

model: training, validation, and test data.

NEW QUESTION # 99

An engine manufacturing facility wants to apply machine learning to detect faulty bolts. Which of the following would result in bias in the model?

- **A. Selecting training data by purposely excluding specific faulty conditions**
- B. Selecting testing data from a boat manufacturer's bolt longevity data
- C. Selecting training data by purposely including all known faulty conditions
- D. Selecting testing data from a different dataset than the training dataset

Answer: A

Explanation:

Bias in AI models often originates from incomplete or non-representative training data. In this case, if the training dataset purposely excludes specific faulty conditions, the machine learning model will fail to learn and detect these conditions in real-world scenarios. This results in:

* Sample bias, where the training data is not fully representative of all possible faulty conditions.

* Algorithmic bias, where the model prioritizes certain defect types while ignoring others.

* B. Selecting training data by purposely including all known faulty conditions# This would help reduce bias by improving model generalization.

* C. Selecting testing data from a different dataset than the training dataset# This is a good practice to evaluate model generalization but does not inherently introduce bias.

* D. Selecting testing data from a boat manufacturer's bolt longevity data# While using unrelated data can create poor model accuracy, it does not directly introduce bias unless systematic patterns in the incorrect dataset lead to unfair decision-making.

* Section 8.3 - Testing for Algorithmic, Sample, and Inappropriate Bias states that sample bias can occur if the training dataset is not fully representative of the expected data space, leading to biased predictions.

Why are the other options incorrect? Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 100

Which ONE of the following options describes a scenario of A/B testing the LEAST?

SELECT ONE OPTION

- **A. A comparison of the performance of an ML system on two different input datasets.**
- B. A comparison of two different websites for the same company to observe from a user acceptance perspective.
- C. A comparison of the performance of two different ML implementations on the same input data.
- D. A comparison of two different offers in a recommendation system to decide on the more effective offer for same users.

Answer: A

Explanation:

A/B testing, also known as split testing, is a method used to compare two versions of a product or system to determine which one performs better. It is widely used in web development, marketing, and machine learning to optimize user experiences and model performance. Here's why option C is the least descriptive of an A/B testing scenario:

Understanding A/B Testing:

In A/B testing, two versions (A and B) of a system or feature are tested against each other. The objective is to measure which version performs better based on predefined metrics such as user engagement, conversion rates, or other performance indicators.

Application in Machine Learning:

In ML systems, A/B testing might involve comparing two different models, algorithms, or system configurations on the same set of data to observe which yields better results.

Why Option C is the Least Descriptive:

Option C describes comparing the performance of an ML system on two different input datasets. This scenario focuses on the input data variation rather than the comparison of system versions or features, which is the essence of A/B testing. A/B testing typically involves a controlled experiment with two versions being tested under the same conditions, not different datasets.

Clarifying the Other Options:

A . A comparison of two different websites for the same company to observe from a user acceptance perspective: This is a classic example of A/B testing where two versions of a website are compared.

B . A comparison of two different offers in a recommendation system to decide on the more effective offer for the same users: This is another example of A/B testing in a recommendation system.

D. A comparison of the performance of two different ML implementations on the same input data: This fits the A/B testing model where two implementations are compared under the same conditions.

Reference:

ISTQB CT-AI Syllabus, Section 9.4, A/B Testing, explains the methodology and application of A/B testing in various contexts. "Understanding A/B Testing" (ISTQB CT-AI Syllabus).

NEW QUESTION # 101

A startup company has implemented a new facial recognition system for a banking application for mobile devices. The application is intended to learn at run-time on the device to determine if the user should be granted access. It also sends feedback over the Internet to the application developers. The application deployment resulted in continuous restarts of the mobile devices. Which of the following is the most likely cause of the failure?

- A. The size of the application is consuming too much of the phone's storage capacity
- **B. The training, processing, and diagnostic generation are too computationally intensive for the mobile device hardware to handle**
- C. Mobile operating systems cannot process machine learning algorithms
- D. The feedback requires a physical connection and cannot be sent over the Internet

Answer: B

Explanation:

The syllabus highlights that on-device training and processing require considerable computational power, which may exceed the capabilities of some mobile devices:

"Self-learning and continuous learning systems require large amounts of computational power, which can impact system performance and stability if the hardware is not powerful enough." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.3, page 22 of 99)

NEW QUESTION # 102

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