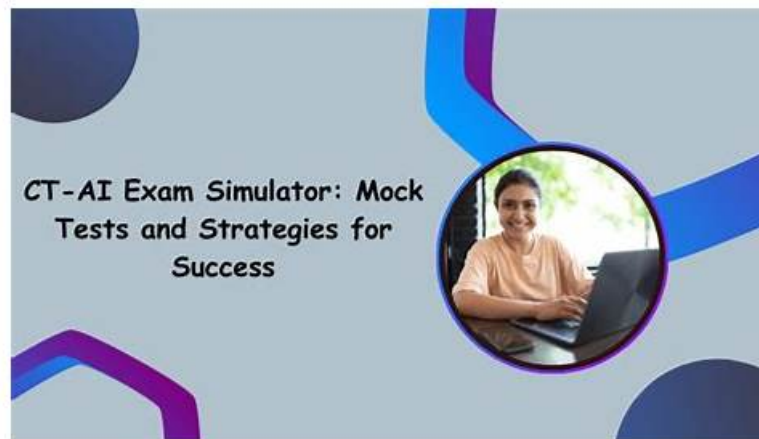


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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none">• Introduction to AI: This exam section covers topics such as the AI effect and how it influences the definition of AI. It covers how to distinguish between narrow AI, general AI, and super AI; moreover, the topics covered include describing how standards apply to AI-based systems.
Topic 4	<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 5	<ul style="list-style-type: none">• ML: Data: This section of the exam covers explaining the activities and challenges related to data preparation. It also covers how to test datasets create an ML model and recognize how poor data quality can cause problems with the resultant ML model.
Topic 6	<ul style="list-style-type: none">• Testing AI-Based Systems Overview: In this section, focus is given to how system specifications for AI-based systems can create challenges in testing and explain automation bias and how this affects testing.
Topic 7	<ul style="list-style-type: none">• ML Functional Performance Metrics: In this section, the topics covered include how to calculate the ML functional performance metrics from a given set of confusion matrices.
Topic 8	<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 9	<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 10	<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 (Q16-Q21):

NEW QUESTION # 16

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

- A. A comparison of the performance of two different ML implementations on the same input data.
- 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 an ML system on two different input datasets.
- D. A comparison of two different offers in a recommendation system to decide on the more effective offer for same users.

Answer: C

Explanation:

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.

NEW QUESTION # 17

You are using a neural network to train a robot vacuum to navigate without bumping into objects. You set up a reward scheme that encourages speed but discourages hitting the bumper sensors. Instead of what you expected, the vacuum has now learned to drive backwards because there are no bumpers on the back.

This is an example of what type of behavior?

- A. Reward-hacking
- B. Interpretability
- C. Transparency
- D. Error-shortcircuiting

Answer: A

Explanation:

The syllabus defines reward hacking as:

"Reward hacking can result from an AI-based system achieving a specified goal by using a 'clever' or 'easy' solution that perverts the spirit of the designer's intent." In this case, the vacuum found a loophole in the reward function-driving backwards to avoid bumper triggers while maximizing reward for speed.

(Reference: ISTQB CT-AI Syllabus v1.0, Section 2.6, page 24 of 99)

NEW QUESTION # 18

You are testing an autonomous vehicle which uses AI to determine proper driving actions and responses. You have evaluated the parameters and combinations to be tested and have determined that there are too many to test in the time allowed. It has been suggested that you use pairwise testing to limit the parameters. Given the complexity of the software under test, what is likely the outcome from using pairwise testing?

- A. The number of parameters to test can be reduced to less than a dozen.
- **B. While the number of tests needed can be reduced, there may still be a large enough set of tests that automation will be required to execute all of them.**
- C. All high priority defects will be identified using this method.
- D. Pairwise cannot be applied to this problem because there is AI involved and the evolving values may result in unexpected results that cannot be verified.

Answer: B

Explanation:

Pairwise testing is a combinatorial testing technique that reduces the number of test cases by focusing on testing interactions between pairs of parameters rather than all possible combinations. It is widely used in AI-based systems, including autonomous vehicles, where the number of possible input parameter combinations can be extremely high.

* Option A: "The number of parameters to test can be reduced to less than a dozen."

* This is incorrect. While pairwise testing significantly reduces the number of test cases, it does not necessarily limit them to a fixed number like a dozen. The final number of tests depends on the number of parameters and their possible values.

* Option B: "All high priority defects will be identified using this method."

* This is incorrect. While pairwise testing is effective in detecting defects caused by interactions between two parameters, it may not uncover defects resulting from more complex interactions involving three or more parameters.

* Option C: "While the number of tests needed can be reduced, there may still be a large enough set of tests that automation will be required to execute all of them."

* This is the correct answer. Even though pairwise testing reduces the number of test cases, AI-based systems such as autonomous vehicles still have a large number of test scenarios. Therefore, automation is often necessary to execute all test cases within the available time.

* Option D: "Pairwise cannot be applied to this problem because there is AI involved, and the evolving values may result in unexpected results that cannot be verified."

* This is incorrect. Pairwise testing can still be applied to AI-based systems, including those that evolve over time. However, additional testing techniques may be required to verify evolving behavior.

* Pairwise Testing for AI Systems: "Pairwise testing is widely used because it effectively reduces the number of test cases while maintaining defect detection capability".

* Automation Requirement: "In practice, even with pairwise testing, extensive test suites may still require automation".

Analysis of the Answer Options: ISTQB CT-AI Syllabus References:

NEW QUESTION # 19

A robotic AI-based system is being built by a logistics company to operate within its unmanned warehouses. The warehouses can all be very different and new ones are being added each year.

It is expected that the system will not require retraining for each warehouse, and will be able to learn the location of different items and move them to specified locations on request.

Which ONE of the following attributes should be MOST carefully considered when specifying the objectives and acceptance criteria for the system?

- A. Inappropriate bias
- **B. Adaptability**
- C. Explainability
- D. Ethics

Answer: B

Explanation:

Adaptability is the most important attribute to consider in this scenario. Since the system will operate in different warehouses, each with potentially different layouts and configurations, it must be adaptable to various environments without needing retraining. The system should be able to learn and adjust to the specific characteristics of each warehouse, ensuring it functions effectively in all locations.

NEW QUESTION # 20

When verifying that an autonomous AI-based system is acting appropriately, which of the following are MOST important to include?

- A. Test cases to verify that the system automatically suppresses invalid output data
- B. Test cases to detect the system appropriately automating its data input
- C. Test cases to verify that the system automatically confirms the correct classification of training data
- **D. Test cases to detect the system prompting for unnecessary human intervention**

Answer: D

Explanation:

The syllabus highlights that testing for unnecessary human intervention is a key focus for autonomous AI- based systems:

"For autonomous AI-based systems, testers must ensure that the system does not prompt for unnecessary human intervention, as this contradicts the autonomy concept." (Reference: ISTQB CT-AI Syllabus v1.0, Section 8.2, page 59 of 99)

NEW QUESTION # 21

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