

Pass Guaranteed Quiz CT-AI - Certified Tester AI Testing Exam Accurate Exam Answers



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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<ul style="list-style-type: none">• systems from those required for conventional systems.
Topic 5	<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 6	<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.
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>> Exam CT-AI Answers <<

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20

The stakeholders of a machine learning model have confirmed that they understand the objective and purpose of the model, and ensured that the proposed model aligns with their business priorities. They have also selected a framework and a machine learning model that they will be using. What should be the next step to progress along the machine learning workflow?

- A. Tune the machine learning algorithm based on objectives and business priorities
- B. Agree on defined acceptance criteria for the machine learning model
- C. Evaluate the selection of the framework and the model
- **D. Prepare and pre-process the data that will be used to train and test the model**

Answer: D

Explanation:

The ML workflow typically involves iterative steps, beginning with data preparation once the model and framework are selected.

The syllabus explains:

"The steps shown in Figure 1 (the ML workflow) do not include the integration of the ML model with the non- ML parts of the overall system. Typically, ML models cannot be deployed in isolation and need to be integrated with the non-ML parts... The next step would be data preparation as part of the ML workflow to provide input data to support training by an ML algorithm or prediction by an ML model." (Reference: ISTQB CT-AI Syllabus v1.0, Sections 3.2 & 4.1)

NEW QUESTION # 21

Which of the following is a dataset issue that can be resolved using pre-processing?

- A. Insufficient data
- B. Invalid data
- C. Wanted outliers
- **D. Numbers stored as strings**

Answer: D

Explanation:

The syllabus describes that data pre-processing includes cleaning (e.g., fixing or removing invalid data) and transforming data (e.g., changing data types such as numbers stored as strings).

"Transformation: The format of the given data is changed... converting categorical data into numerical data, changing image formats..." (Reference: ISTQB CT-AI Syllabus v1.0, Section 4.1.1, Page 34 of 99)

NEW QUESTION # 22

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. 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.
- B. The number of parameters to test can be reduced to less than a dozen.
- C. 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.
- D. All high priority defects will be identified using this method.

Answer: A

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 # 23

Max. Score: 2

AI-enabled medical devices are used nowadays for automating certain parts of the medical diagnostic processes. Since these are life-critical process the relevant authorities are considering bringing about suitable certifications for these AI enabled medical devices. This certification may involve several facets of AI testing (I - V).

I . Autonomy

II . Maintainability

III . Safety

IV . Transparency

V . Side Effects

Which ONE of the following options contains the three MOST required aspects to be satisfied for the above scenario of certification of AI enabled medical devices?

SELECT ONE OPTION

- A. Aspects III, IV, and V
- B. Aspects I, II, and III
- C. Aspects I, IV, and V
- D. Aspects II, III and IV

Answer: A

Explanation:

For AI-enabled medical devices, the most required aspects for certification are safety, transparency, and side effects. Here's why:

Safety (Aspect III): Critical for ensuring that the AI system does not cause harm to patients.

Transparency (Aspect IV): Important for understanding and verifying the decisions made by the AI system.

Side Effects (Aspect V): Necessary to identify and mitigate any unintended consequences of the AI system.

Why Not Other Options:

Autonomy and Maintainability (Aspects I and II): While important, they are secondary to the immediate concerns of safety, transparency, and managing side effects in life-critical processes.

NEW QUESTION # 24

Which statement about automation bias is correct?

Choose ONE option (1 out of 4)

- A. Automation bias particularly affects testing of autonomous systems
- **B. Automation bias affects the testing of AI-based systems that support users in their actions or decisions**
- C. When testing AI-based systems, automation bias does not play a role in supporting test activities such as boundary value analysis
- D. Automation bias is tested with representative users, but human input quality is irrelevant

Answer: B

Explanation:

Automation bias is defined in Section 4.4 - Human Factors in AI Testing of the ISTQB CT-AI syllabus. It refers to the human tendency to overly trust, rely on, or defer to automated system outputs. The syllabus explains that this bias arises especially in decision-support systems, where humans may accept AI judgments without adequate verification. This aligns directly with Option B.

Option A is incorrect: automation bias does influence testing, especially when testers rely excessively on AI outputs. The syllabus cautions about testers adopting the same cognitive biases as end users. Option C is incorrect because autonomous systems are not the primary context; rather, systems supporting human decisions are most impacted. Option D is incorrect because the quality of human input matters significantly, and poorly designed user studies can mask or distort automation bias.

Thus, Option B is the syllabus-accurate description of automation bias.

NEW QUESTION # 25

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