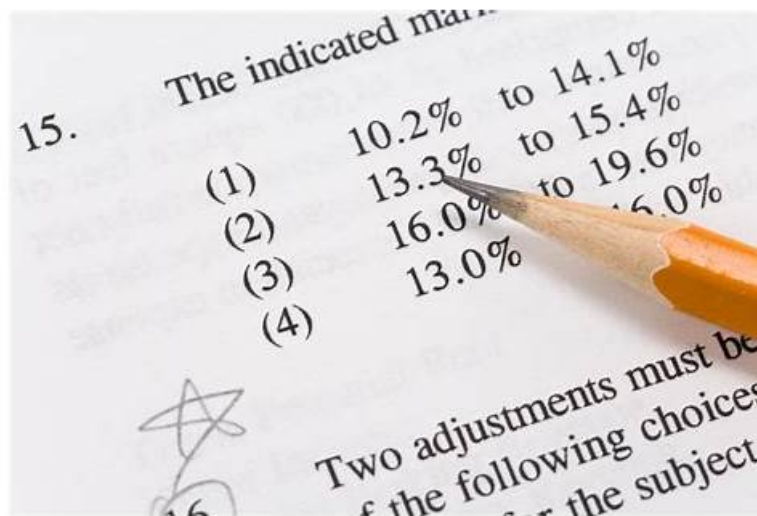


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ISTQB CT-AI Exam Overview:

Certification Vendor:	ISTQB
Exam Name:	ISTQB Certified Tester - AI Testing Exam
Exam Number:	CT-AI
Certificate Validity Period:	Valid indefinitely (no expiration)
Exam Format:	Multiple-choice questions, 1-2 points per question
Related Certifications:	ISTQB Certified Tester Foundation Level (CTFL) ISTQB Certified Tester Testing with Generative AI (CT-GenAI)
Exam Price:	€180 - €250 (varies by region and provider)
Exam Duration:	60 (75 for non-native language)
Available Languages:	English, German, French, Spanish, Portuguese, Chinese, Japanese, Korean
Passing Score:	65% (29/44 points for v2.0; 31/47 points for v1.0)
Real Exam Qty:	40
Recommended Training:	ISTQB Accredited Training Providers CT-AI Syllabus v2.0
Exam Registration:	Pearson VUE ISTQB Official Registration iSQI Exam Registration
Sample Questions:	ISTQB CT-AI Sample Questions
Exam Way:	Online remote proctored / Onsite test center
Pre Condition:	Must hold ISTQB Certified Tester Foundation Level (CTFL) certification
Official Syllabus URL:	https://istqb.org/certifications/certified-tester-ai-testing-ct-ai/

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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 3	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 4	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	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	Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 7	Neural Networks and Testing: This section of the exam covers defining the structure and function of a neural network including a DNN and the different coverage measures for neural networks.
Topic 8	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.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q104-Q109):

NEW QUESTION # 104

A transportation company operates three types of delivery vehicles in its fleet. The vehicles operate at different speeds (slow, medium, and fast). The transportation company is attempting to optimize scheduling and has created an AI-based program to plan routes for its vehicles using records from the medium-speed vehicle traveling to selected destinations. The test team uses this data in metamorphic testing to test the accuracy of the estimated travel times created by the AI route planner with the actual routes and times.

Which of the following describes the next phase of metamorphic testing?

- A. The team tests the time required for the fast and slow vehicles to travel the same route as the medium vehicle. Then, by calculating the speed difference, they then predict how much faster or slower the vehicles will travel. That information is then used to verify that the arrival time of the vehicles meets the expected result.
- B. The team uses an AI system to select the most dissimilar routes. With this information, any of the AI routes can be metaphorically transformed into a fast or slow route.
- C. The team uses the same AI route planner to create routes that are longer and shorter but follow the same track. Finally, by driving the fast vehicles on the long routes and slow vehicles on the short routes and vice versa, the AI system will have

enough information to infer travel times for all vehicles on all routes.

- D. The team decomposes each route into the relevant components that affect the travel time, such as traffic density and vehicle power. The team then uses statistical analysis to characterize the influence of each component to calculate the fast and slow vehicle route times.

Answer: A

Explanation:

The syllabus describes metamorphic testing as:

"Testing involves defining metamorphic relations and then applying those relations to check that the transformations result in expected outcomes, even when the expected output of the system is unknown or not well-defined." In this scenario, applying the metamorphic relation (speed differences) and checking the transformed outcome (arrival times) fits the definition of metamorphic testing.

(Reference: ISTQB CT-AI Syllabus v1.0, Section 9.5, page 69 of 99)

NEW QUESTION # 105

A team of software testers is attempting to create an AI algorithm to assist in software testing. This particular team has gone through over 40 iterations of testing and cannot afford to spend as much time as it takes to run the full regression test suite. They are hoping to have the algorithm reduce the amount of testing required thus reducing the time needed for each testing cycle.

How can an AI-based tool be expected to assist in this reduction?

- A. By performing bayesian analysis to estimate the types of human interactions that are expected to be seen in the system and then selecting those test cases
- **B. By performing optimization of the data from past iterations to see where the most common defects occurred and select the corresponding test cases**
- C. By using A/B testing to compare the last update with the newest change and compare metrics between the two
- D. By using a clustering method to quantify the relationships between test cases and then assigning each test case to a category

Answer: B

Explanation:

AI-based tools can significantly optimize regression test suites by analyzing historical data, past test results, associated defects, and changes made to the software. These tools prioritize and select the most relevant test cases based on previous defect patterns and frequently failing features, which helps in reducing the test execution time while maintaining effectiveness.

The optimization process involves:

* Prioritizing test cases: AI-based tools rank test cases based on past defect detection trends, ensuring that the most relevant tests are executed first.

* Reducing redundant test cases: The tool can eliminate test cases that do not contribute significantly to defect detection, reducing overall test execution time.

* Augmenting test cases: The AI can also suggest new test cases if certain features are more prone to defects.

This approach has been proven to reduce regression test suite sizes by up to 50% while maintaining fault detection capabilities.

* Section 11.4 - Using AI for the Optimization of Regression Test Suites states that AI-based tools can optimize regression test suites by analyzing past test data and defect occurrences, leading to significant reductions in test execution time.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 106

Which ONE of the following options does NOT describe a challenge for acquiring test data in ML systems?

- A. Test data being sourced from public sources.
- **B. Data for the use case is being generated at a fast pace.**
- C. Nature of data constantly changes with time.
- D. Compliance needs require proper care to be taken of input personal data.

Answer: B

Explanation:

Challenges for Acquiring Test Data in ML Systems: Compliance needs, the changing nature of data over time, and sourcing data from public sources are significant challenges. Data being generated quickly is generally not a challenge; it can actually be beneficial as it provides more data for training and testing.

NEW QUESTION # 107

The training of an ML model.. What type of bias is LEAST important to look for when testing the model?
Choose ONE option (1 out of 4)

- A. Sample bias
- B. Inappropriate bias
- C. Algorithmic bias
- **D. Automation bias**

Answer: D

Explanation:

The ISTQB CT-AI syllabus distinguishes between several types of bias relevant in AI testing, including sample bias, algorithmic bias, and inappropriate bias. In Section 3.3 - Bias in AI-Based Systems, the syllabus stresses the importance of identifying biases that originate from training data, model development, and decision logic. Sample bias occurs when the training data does not adequately represent the population; algorithmic bias arises when the model produces systematically skewed results due to learned patterns; inappropriate bias involves ethically or socially problematic distortions in the outcomes. All three of these bias types directly affect the outputs of the AI model and are therefore highly relevant when testing an industrial inspection system intended to reliably detect defects. These biases can lead to defective items being missed or false alarms being raised, which impacts quality assurance significantly.

Automation bias, however, is fundamentally different. It refers to a human cognitive bias, where users (e.g., inspectors) overly trust or rely on the AI system's output. While important in user-interaction testing, it is not a bias within the ML model itself. Since the question asks which bias is least important when testing the model, automation bias can be legitimately deprioritized during model-level testing. Therefore, Option B is correct.

NEW QUESTION # 108

A test engineer is planning the best functional performance metrics to evaluate an unsupervised learning model. The model groups data points based on their similarity. The test engineer wants to measure how similar the data points in each group actually are. Which is the MOST likely metric they should use?

- **A. Intra-cluster**
- B. AUC
- C. Recall
- D. ROC

Answer: A

Explanation:

The most appropriate metric for evaluating the similarity of data points within each group in an unsupervised learning model is intra-cluster. This metric measures how similar the data points within each cluster are to one another. The goal is to have high intra-cluster similarity, meaning the data points within a group should be similar to each other.

NEW QUESTION # 109

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