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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 4	• 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 5	• 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 6	• 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 7	• 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 8	• systems from those required for conventional systems.
Topic 9	• 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.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q55-Q60):

NEW QUESTION # 55
Which assignment of AI techniques to testing support is BEST?
Choose ONE option (1 out of 4)

- A. Classification for the optimization of regression test cases
- B. Probabilistic methods for the prediction of system failures
- C. Computational optimization techniques for defect prediction
- D. Fuzzy logic for the generation of test cases

Answer: B

Explanation:
The ISTQB CT-AI syllabus (Section 5.2 - AI for Testing) explains that various AI approaches can support testing activities. Probabilistic methods-one of the three major AI technique groups-are used to predict system failures, especially when dealing with uncertainty, likelihood estimation, and reliability analysis. This aligns precisely with Option B.
Option A is incorrect because regression test optimization is typically performed using search-based optimization, not classification.
Option C is incorrect because fuzzy logic is more suited to reasoning under vagueness, not generating test cases. Option D is incorrect: defect prediction relies on statistical learning or classification models, not computational optimization.
Thus, Option B is the most syllabus-consistent mapping of AI techniques to testing tasks.

NEW QUESTION # 56

Which statement about automation bias is correct?

Choose ONE option (1 out of 4)

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

Answer: C

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 # 57

Which challenge to testing self-learning systems puts you at risk of a data attack?

Choose ONE option (1 out of 4)

- A. Insufficient testing time
- B. Unexpected changes
- C. Inadequate specification of the operating environment
- D. Complex test environment

Answer: B

Explanation:

The ISTQB CT-AI syllabus describes that self-learning systems continuously adjust their behavior during operation as new data arrives. Section 4.1 - Challenges of Testing AI-Based Systems highlights that such systems are vulnerable to data attacks, particularly through adversarial inputs, poisoning, or malicious drift.

The risk arises because unexpected changes in the input distribution may alter the learned model in harmful ways. Option D - Unexpected changes corresponds directly to this syllabus-defined risk.

Option A refers to system specification issues but does not relate to data attacks. Option B discusses environment complexity, which makes testing difficult but is not tied to adversarial threats. Option C (insufficient testing time) affects quality but does not specifically increase vulnerability to malicious data manipulation.

Unexpected changes-including data drift, poisoned samples, or maliciously constructed training data-pose the greatest risk. When a self-learning system adapts to altered data patterns, it may unknowingly learn incorrect associations, causing model degradation or manipulation. Therefore, Option D correctly identifies the challenge that increases exposure to data attacks.

NEW QUESTION # 58

You have been developing test automation for an e-commerce system. One of the problems you are seeing is that object recognition in the GUI is having frequent failures. You have determined this is because the developers are changing the identifiers when they make code updates.

How could AI help make the automation more reliable?

- A. It could dynamically name the objects, altering the source code, so the object names will match the object names used in the automation.
- B. It could generate a model that will anticipate developer changes and pre-alter the test automation code accordingly.
- C. It could identify the objects multiple ways and then determine the most commonly used and stable identification for each object.
- D. It could modify the automation code to ignore unrecognizable objects to avoid failures.

Answer: C

NEW QUESTION # 59

Which of the following is a problem with AI-generated test cases that are generated from the requirements?

- A. They are slow and will usually not be able to execute in the time allowed
- B. They are defect-prone because they are unable to detect nuances in the requirements
- C. They are usually missing the expected results, so verification is difficult or must resort to only detecting significant failures
- D. They make debugging more complicated because the number of steps is usually high in order to induce the target failure

Answer: C

Explanation:
The syllabus mentions a drawback of AI-generated test cases:
"AI-based test generation tools can generate test cases... However, unless a test model that defines required behaviors is used as the basis of the tests, this form of test generation generally suffers from a test oracle problem because the AI-based tool does not know what the expected results should be." (Reference: ISTQB CT-AI Syllabus v1.0, Section 11.3, page 78 of 99)

NEW QUESTION # 60

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