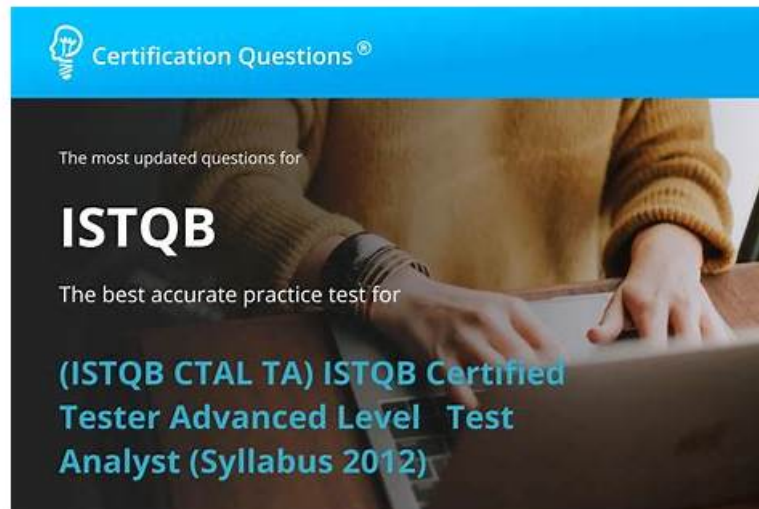


ISTQB CT-AI Online Practice Test (ISTQB-CT-AI-Practice-Test)



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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<ul style="list-style-type: none">• 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 5	<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 6	<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 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 (Q79-Q84):

NEW QUESTION # 79

Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?
SELECT ONE OPTION

- A. Testing the speed of the prediction by the model.
- B. Testing the accuracy of the classification model.
- **C. Testing the speed of the training of the model.**
- D. Testing the API of the service powered by the ML model.

Answer: C

Explanation:

The question asks which test is least likely to be performed during the ML model testing phase. Let's consider each option:

* Testing the accuracy of the classification model (A): Accuracy testing is a fundamental part of the ML model testing phase. It ensures that the model correctly classifies the data as intended and meets the required performance metrics.

* Testing the API of the service powered by the ML model (B): Testing the API is crucial, especially if the ML model is deployed as part of a service. This ensures that the service integrates well with other systems and that the API performs as expected.

* Testing the speed of the training of the model (C): This is least likely to be part of the ML model testing phase. The speed of training is more relevant during the development phase when optimizing and tuning the model. During testing, the focus is more on the model's performance and behavior rather than how quickly it was trained.

* Testing the speed of the prediction by the model (D): Testing the speed of prediction is important to ensure that the model meets performance requirements in a production environment, especially for real-time applications.

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ISTQB CT-AI Syllabus Section 3.2 on ML Workflow and Section 5 on ML Functional Performance Metrics discuss the focus of testing during the model testing phase, which includes accuracy and prediction speed but not the training speed.

NEW QUESTION # 80

Which of the following characteristics of AI-based systems make it more difficult to ensure they are safe?

- A. Robustness
- B. Simplicity
- C. Sustainability
- **D. Non-determinism**

Answer: D

Explanation:

AI-based systems often exhibit non-deterministic behavior, meaning they do not always produce the same output for the same input. This makes ensuring safety more difficult, as the system's behavior can change based on new data, environmental factors, or updates.

* Why Non-determinism Affects Safety:

* In traditional software, the same input always produces the same output.

* In AI systems, outputs vary probabilistically depending on learned patterns and weights.

* This unpredictability makes it harder to verify correctness, reliability, and safety, especially in critical domains like autonomous vehicles, medical AI, and industrial automation.

* A (Simplicity): AI-based systems are typically complex, not simple, which contributes to safety challenges.

* B (Sustainability): While sustainability is an important AI consideration, it does not directly affect safety.

* D (Robustness): Lack of robustness can make AI systems unsafe, but non-determinism is the primary issue that complicates safety verification.

* ISTQB CT-AI Syllabus (Section 2.8: Safety and AI)

* "The characteristics of AI-based systems that make it more difficult to ensure they are safe include: complexity, non-determinism, probabilistic nature, self-learning, lack of transparency, interpretability and explainability, lack of robustness".

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study

Guide: Conclusion: Since non-determinism makes AI behavior unpredictable, complicating safety assurance, the correct answer is C.

NEW QUESTION # 81

A local business has a mail pickup/delivery robot for their office. The robot currently uses a track to move between pickup/drop off locations. When it arrives at a destination, the robot stops to allow a human to remove or deposit mail.

The office has decided to upgrade the robot to include AI capabilities that allow the robot to perform its duties without a track, without running into obstacles, and without human intervention.

The test team is creating a list of new and previously established test objectives and acceptance criteria to be used in the testing of the robot upgrade. Which of the following test objectives will test an AI quality characteristic for this system?

- A. The robot must evolve to optimize its routing
- B. The robot must recharge for no more than six hours a day
- C. The robot must record the time of each delivery which is compiled into a report
- D. The robot must complete 99.99% of its deliveries each day

Answer: A

Explanation:

AI-based systems have specific quality characteristics, including evolution, autonomy, and adaptability. A test objective that evaluates whether an AI system evolves to improve performance over time directly aligns with AI quality characteristics.

Explanation of Answer Choices:

* Option A: The robot must evolve to optimize its routing.

* Correct. Evolution is an AI quality characteristic that ensures the system learns from past experiences and adapts to improve efficiency.

* Option B: The robot must recharge for no more than six hours a day.

* Incorrect. This is an operational constraint rather than an AI-specific quality characteristic.

* Option C: The robot must record the time of each delivery which is compiled into a report.

* Incorrect. Logging data does not relate to AI quality characteristics like adaptability or autonomy.

* Option D: The robot must complete 99.99% of its deliveries each day.

* Incorrect. This is a performance target rather than an AI quality characteristic.

ISTQB CT-AI Syllabus References:

* Evolution as an AI Quality Characteristic: "Check how well the system learns from its own experience. Check how well the system copes when the profile of data changes (i.e., concept drift)".

Thus, Option A is the best choice as it directly tests an AI quality characteristic (evolution) in the upgraded autonomous robot.

NEW QUESTION # 82

A system was developed for screening the X-rays of patients for potential malignancy detection (skin cancer). A workflow system has been developed to screen multiple cancers by using several individually trained ML models chained together in the workflow.

Testing the pipeline could involve multiple kind of tests (I - III):

I . Pairwise testing of combinations

II . Testing each individual model for accuracy

III . A/B testing of different sequences of models

Which ONE of the following options contains the kinds of tests that would be MOST APPROPRIATE to include in the strategy for optimal detection?

SELECT ONE OPTION

- A. Only II
- B. I and III
- C. I and II
- D. Only III

Answer: C

Explanation:

The question asks which combination of tests would be most appropriate to include in the strategy for optimal detection in a workflow system using multiple ML models.

Pairwise testing of combinations (I): This method is useful for testing interactions between different components in the workflow to ensure they work well together, identifying potential issues in the integration.

Testing each individual model for accuracy (II): Ensuring that each model in the workflow performs accurately on its own is crucial before integrating them into a combined workflow.

A/B testing of different sequences of models (III): This involves comparing different sequences to determine which configuration yields the best results. While useful, it might not be as fundamental as pairwise and individual accuracy testing in the initial stages.

Reference:

ISTQB CT-AI Syllabus Section 9.2 on Pairwise Testing and Section 9.3 on Testing ML Models emphasize the importance of testing interactions and individual model accuracy in complex ML workflows.

NEW QUESTION # 83

Which ONE of the following characteristics is the least likely to cause safety related issues for an AI system?

SELECT ONE OPTION

- **A. Robustness**
- B. Non-determinism
- C. High complexity
- D. Self-learning

Answer: A

Explanation:

The question asks which characteristic is least likely to cause safety-related issues for an AI system. Let's evaluate each option:

* Non-determinism (A): Non-deterministic systems can produce different outcomes even with the same inputs, which can lead to unpredictable behavior and potential safety issues.

* Robustness (B): Robustness refers to the ability of the system to handle errors, anomalies, and unexpected inputs gracefully. A robust system is less likely to cause safety issues because it can maintain functionality under varied conditions.

* High complexity (C): High complexity in AI systems can lead to difficulties in understanding, predicting, and managing the system's behavior, which can cause safety-related issues.

* Self-learning (D): Self-learning systems adapt based on new data, which can lead to unexpected changes in behavior. If not properly monitored and controlled, this can result in safety issues.

References:

* ISTQB CT-AI Syllabus Section 2.8 on Safety and AI discusses various factors affecting the safety of AI systems, emphasizing the importance of robustness in maintaining safe operation.

NEW QUESTION # 84

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