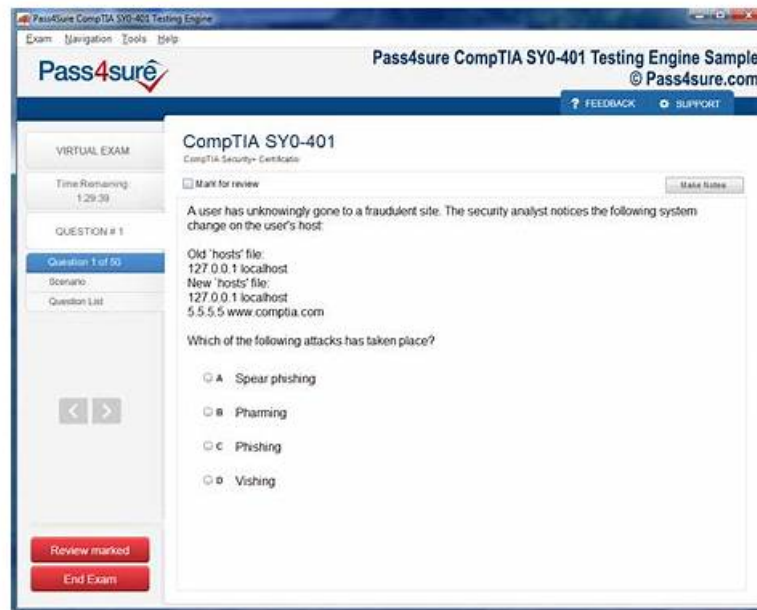


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ISTQB Certified Tester AI Testing Exam Sample Questions (Q96-Q101):

NEW QUESTION # 96

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

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

Answer: A

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."

NEW QUESTION # 97

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

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

Answer: A

Explanation:

When verifying autonomous AI-based systems, a critical aspect is ensuring that they maintain an appropriate level of autonomy while only requesting human intervention when necessary. If an AI system unnecessarily asks for human input, it defeats the purpose of autonomy and can:

* Slow down operations.

* Reduce trust in the system.

* Indicate improper confidence thresholds in decision-making.

This is particularly crucial in autonomous vehicles, AI-driven financial trading, and robotic process automation, where excessive human intervention would hinder performance.

* A. Test cases to verify that the system automatically confirms the correct classification of training data# This is relevant for verifying training consistency but not for autonomy validation.

* B. Test cases to detect the system appropriately automating its data input# While relevant, data automation does not directly address the verification of autonomy.

* D. Test cases to verify that the system automatically suppresses invalid output data# This focuses on output filtering rather than decision-making autonomy.

Why are the other options incorrect? Thus, the most critical test case for verifying autonomous AI-based systems is ensuring that it does not unnecessarily request human intervention.

* Section 8.2 - Testing Autonomous AI-Based Systems states that it is crucial to test whether the system requests human intervention only when necessary and does not disrupt autonomy.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 98

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

SELECT ONE OPTION

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

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.

* Reference: ISTQB_CT-AI_Syllabus_v1.0, Sections on Data Preparation and Data Quality Issues.

NEW QUESTION # 99

The training of an ML model... What type of bias is LEAST important to look for when testing the model?

- A. Inappropriate bias
- B. Sample 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 # 100

Which ONE of the following is a factor associated with the test data that can create challenges specific to testing AI-based systems?

- A. Obtaining appropriate data from users
- B. Obtaining data that has not been pre-processed by the system under test.
- C. Obtaining data from public benchmark datasets
- D. Manual creation of test data

Answer: A

Explanation:

Obtaining appropriate data from users is a significant challenge when testing AI-based systems, as user-provided data may be noisy, unstructured, or highly variable. This can introduce complexities in testing the AI model's robustness and generalizability.

NEW QUESTION # 101

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