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ISTQB Certified Tester AI Testing Exam Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which ONE of the following activities is MOST relevant when addressing the scenario where you have more than the required amount of data available for the training?

SELECT ONE OPTION

- A. Feature selection
- B. **Data sampling**
- C. Data labeling
- D. Data augmentation

Answer: B

Explanation:

A . Feature selection

Feature selection is the process of selecting the most relevant features from the data. While important, it is not directly about handling excess data.

B . Data sampling

Data sampling involves selecting a representative subset of the data for training. When there is more data than needed, sampling can be used to create a manageable dataset that maintains the statistical properties of the full dataset.

C . Data labeling

Data labeling involves annotating data for supervised learning. It is necessary for training models but does not address the issue of having excess data.

D . Data augmentation

Data augmentation is used to increase the size of the training dataset by creating modified versions of existing data. It is useful when there is insufficient data, not when there is excess data.

Therefore, the correct answer is B because data sampling is the most relevant activity when dealing with an excess amount of data for training.

NEW QUESTION # 52

Which ONE of the following is the BEST option to optimize the regression test selection and prevent the regression suite from growing large?

SELECT ONE OPTION

- A. Identifying suitable tests by looking at the complexity of the test cases.
- B. Using an AI-based tool to optimize the regression test suite by analyzing past test results
- C. Using of a random subset of tests.
- D. Automating test scripts using AI-based test automation tools.

Answer: B

Explanation:

A . Identifying suitable tests by looking at the complexity of the test cases.

While complexity analysis can help in selecting important test cases, it does not directly address the issue of optimizing the entire regression suite effectively.

B . Using a random subset of tests.

Randomly selecting test cases may miss critical tests and does not ensure an optimized regression suite. This approach lacks a systematic method for ensuring comprehensive coverage.

C . Automating test scripts using AI-based test automation tools.

Automation helps in running tests efficiently but does not inherently optimize the selection of tests to prevent the suite from growing too large.

D . Using an AI-based tool to optimize the regression test suite by analyzing past test results.

This is the most effective approach as AI-based tools can analyze historical test data, identify patterns, and prioritize tests that are more likely to catch defects based on past results. This method ensures an optimized and manageable regression test suite by focusing on the most impactful test cases.

Therefore, the correct answer is D because using an AI-based tool to analyze past test results is the best option to optimize regression test selection and manage the size of the regression suite effectively.

NEW QUESTION # 53

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. High complexity
- C. Self-learning
- D. Non-determinism

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.

Reference:

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 # 54

Which statement about AI-based test case generation is correct?

Choose ONE option (1 out of 4)

- A. A different test oracle is usually required for each AI-generated functional test case.
- B. An AI-based system under test must not be used as a functional test oracle.
- C. AI-generated functional test cases typically result in poor requirements coverage.
- D. **Expected results may not be available for AI-generated functional test cases.**

Answer: D

Explanation:

The ISTQB CT-AI syllabus indicates in Section 5.2 - AI for Testing that AI-generated test cases may not come with predefined expected results. This is because test-case generation methods such as evolutionary algorithms, reinforcement learning, or clustering-based sampling produce inputs, but the tester must still determine the correct outputs. Therefore, Option C is correct: expected results may not be available, especially when AI produces novel or previously unseen input combinations.

Option A is incorrect: AI-based test generation can improve coverage by exploring large input spaces. Option B is incorrect because the need for oracles does not depend on whether the test case is AI-generated. Option D is incorrect because the syllabus allows using a model as an oracle in back-to-back testing, provided limitations are understood.

Therefore, Option C is the correct syllabus-aligned statement.

NEW QUESTION # 55

Which two test procedures are BEST suited for CleverPropose system testing?

Choose TWO options (2 out of 5)

- A. Adversarial testing
- B. **Back-to-back testing**
- C. Pairwise testing
- D. Exploratory data analysis
- E. **Metamorphic testing**

Answer: B,E

Explanation:

The ISTQB CT-AI syllabus explains that AI-based decision-support systems benefit strongly from back-to-back testing and metamorphic testing when oracle problems exist or when limited regression tests are available. In this scenario, CleverPropose replaces an older advisory system. Back-to-back testing (Option A) is ideal because the outputs of the existing conventional system can serve as a reference, enabling comparison against the new AI system. This is exactly what the syllabus recommends when AI is replacing a traditional deterministic system.

Metamorphic testing (Option C) is also appropriate, as stated in Section 4.6 - Metamorphic Relations. With limited regression tests and complex decision logic, testers can define metamorphic relations such as "if customer income increases, risk rating should not worsen." These relations allow validation even when exact expected outputs are unavailable.

Exploratory data analysis (Option D) is not a system testing technique. Pairwise testing (Option E) is not well suited for complex AI-based financial advice systems. Adversarial testing (Option B) is more relevant for security-critical or robustness evaluation, not primary system testing for advisory tools.

Thus, A and C are the correct and syllabus-supported choices.

NEW QUESTION # 56

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