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ISTQB Certified Tester AI Testing Exam Sample Questions (Q74-Q79):

NEW QUESTION # 74

You have access to the training data that was used to train an AI-based system. You can review this information and use it as a guideline when creating your tests. What type of characteristic is this?

- A. Accessibility
- B. Transparency
- C. Explorability
- D. Autonomy

Answer: B

Explanation:

The syllabus states:

"Transparency: This is considered to be the ease with which the algorithm and training data used to generate the model can be determined." Access to the training data is an example of transparency.

(Reference: ISTQB CT-AI Syllabus v1.0, Section 2.7, page 24 of 99)

NEW QUESTION # 75

Which of the following are the three activities in the data acquisition activities for data preparation?

- A. Building, approving, deploying
- B. Cleaning, transforming, augmenting
- C. Feature selecting, feature growing, feature augmenting
- **D. Identifying, gathering, labelling**

Answer: D

Explanation:

According to the ISTQB Certified Tester AI Testing (CT-AI) syllabus, data acquisition, a critical step in data preparation for machine learning (ML) workflows, consists of three key activities:

* **Identification:** This step involves determining the types of data required for training and prediction. For example, in a self-driving car application, data types such as radar, video, laser imaging, and LiDAR (Light Detection and Ranging) data may be identified as necessary sources.

* **Gathering:** After identifying the required data types, the sources from which the data will be collected are determined, along with the appropriate collection methods. An example could be gathering financial data from the International Monetary Fund (IMF) and integrating it into an AI-based system.

* **Labeling:** This process involves annotating or tagging the collected data to make it meaningful for supervised learning models. Labeling is an essential activity that helps machine learning algorithms differentiate between categories and make accurate predictions.

These activities ensure that the data is suitable for training and testing machine learning models, forming the foundation of data preparation.

NEW QUESTION # 76

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 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.
- D. 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.

Answer: A

Explanation:

Metamorphic Testing (MT) is a testing technique that verifies AI-based systems by generating follow-up test cases based on existing test cases. These follow-up test cases adhere to a Metamorphic Relation (MR), ensuring that if the system is functioning correctly, changes in input should result in predictable changes in output.

* Metamorphic testing works by transforming source test cases into follow-up test cases

* Here, the source test case involves testing the medium-speed vehicle's travel time.

* The follow-up test cases are derived by extrapolating travel times for fast and slow vehicles using predictable relationships based on speed differences.

* MR states that modifying input should result in a predictable change in output

* Since the speed of the vehicle is a known factor, it is possible to predict the new arrival times and verify whether they follow expected trends.

* This is a direct application of metamorphic testing principles

* In route optimization systems, metamorphic testing often applies transformations to speed, distance, or condition to verify expected

outcomes.

- * (B) Decomposing each route into traffic density and vehicle power#
- * While useful for statistical analysis, this approach does not generate follow-up test cases based on a defined metamorphic relation (MR).
- * (C) Selecting dissimilar routes and transforming them into a fast or slow route#
- * This does not follow metamorphic testing principles, which require predictable transformations.
- * (D) Running fast vehicles on long routes and slow vehicles on short routes#
- * This method does not maintain a controlled MR and introduces too many uncontrolled variables.
- * Metamorphic testing generates follow-up test cases based on a source test case. "MT is a technique aimed at generating test cases which are based on a source test case that has passed. One or more follow-up test cases are generated by changing (metamorphizing) the source test case based on a metamorphic relation (MR)."
- * MT has been used for testing route optimization AI systems. "In the area of AI, MT has been used for testing image recognition, search engines, route optimization and voice recognition, among others." Why Option A is Correct? Why Other Options are Incorrect? References from ISTQB Certified Tester AI Testing Study Guide Thus, option A is the correct answer, as it aligns with the principles of metamorphic testing by modifying input speeds and verifying expected results.

NEW QUESTION # 77

A mobile app start-up company is implementing an AI-based chat assistant for e-commerce customers. In the process of planning the testing, the team realizes that the specifications are insufficient.

Which testing approach should be used to test this system?

- A. Exploratory testing
- B. Static analysis
- C. Equivalence partitioning
- D. State transition testing

Answer: A

Explanation:

When testing an AI-based chat assistant for e-commerce customers, the lack of sufficient specifications makes it difficult to use structured test techniques. The ISTQB CT-AI Syllabus recommends exploratory testing in such cases:

- * Why Exploratory Testing?
- * Exploratory testing is useful when specifications are incomplete or unclear.
- * AI-based systems, particularly those using natural language processing (NLP), may not behave deterministically, making scripted test cases ineffective.
- * The tester interacts dynamically with the system, identifying unexpected behaviors not documented in the specification.
- * Analysis of Answer Choices:
- * A (Exploratory testing) # Correct, as it is the best approach when specifications are incomplete.
- * B (Static analysis) # Incorrect, as static analysis checks code without execution, which is not helpful for AI chatbots.
- * C (Equivalence partitioning) # Incorrect, as this technique requires well-defined inputs and outputs, which are missing due to insufficient specifications.
- * D (State transition testing) # Incorrect, as state-based testing requires knowledge of valid and invalid transitions, which is difficult with a chatbot lacking a clear specification.

Thus, Option A is the correct answer, as exploratory testing is the best approach when dealing with insufficient specifications in AI-based systems.

Certified Tester AI Testing Study Guide References:

- * ISTQB CT-AI Syllabus v1.0, Section 7.7 (Selecting a Test Approach for an ML System)
- * ISTQB CT-AI Syllabus v1.0, Section 9.6 (Experience-Based Testing of AI-Based Systems).

NEW QUESTION # 78

There is a growing backlog of unresolved defects for your project. You know the developers have an ML model that they have created which has learned which developers work on which type of software and the speed with which they resolve issues. How could you use this model to help reduce the backlog and implement more efficient defect resolution?

- A. Use it to prioritize defects automatically based on the time expected for the fix to be made, the speed of the fix, and the likelihood of regressions
- B. Use it to determine the root cause of each defect and develop a process improvement plan that can be implemented to remove the most common root causes

- C. Use it to review the code and determine where more defects are likely to occur so that testing can be targeted to those areas
- D. Use it to assign defects to the best developer to resolve the problem and to load balance the defect assignments among the developers

Answer: D

Explanation:

The syllabus explains that ML models can be used to analyze reported defects and suggest which developers are best suited to fix them based on historical data about defect assignment and resolution speed:

"Assignment: ML models can suggest which developers are best suited to fix particular defects, based on the defect content and previous developer assignments." (Reference: ISTQB CT-AI Syllabus v1.0, Section 11.2, page 78 of 99)

NEW QUESTION # 79

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