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## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• systems from those required for conventional systems.</li></ul>

Topic 5	<ul style="list-style-type: none"> <li>Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 7	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 8	<ul style="list-style-type: none"> <li>Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based</li> </ul>
Topic 9	<ul style="list-style-type: none"> <li>Machine Learning ML: This section includes the classification and regression as part of supervised learning, explaining the factors involved in the selection of ML algorithms, and demonstrating underfitting and overfitting.</li> </ul>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q131-Q136):

### NEW QUESTION # 131

A company is using a spam filter to attempt to identify which emails should be marked as spam. Detection rules are created by the filter that causes a message to be classified as spam. An attacker wishes to have all messages internal to the company be classified as spam. So, the attacker sends messages with obvious red flags in the body of the email and modifies the "from" portion of the email to make it appear that the emails have been sent by company members. The testers plan to use exploratory data analysis (EDA) to detect the attack and use this information to prevent future adversarial attacks.

How could EDA be used to detect this attack?

- A. EDA can restrict how many inputs can be provided by unique users
- B. EDA can detect and remove the false emails
- C. EDA cannot be used to detect the attack
- **D. EDA can help detect the outlier emails from the real emails**

**Answer: D**

Explanation:

The syllabus explains that EDA can be used to analyze data to identify outliers and unusual patterns, which can indicate adversarial attacks like data poisoning:

"Testing to detect data poisoning is possible using EDA, as poisoned data may show up as outliers." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.1.2, page 67 of 99)

### NEW QUESTION # 132

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 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.
- C. 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.

- D. 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.

**Answer: A**

Explanation:

The syllabus describes metamorphic testing as:

"Testing involves defining metamorphic relations and then applying those relations to check that the transformations result in expected outcomes, even when the expected output of the system is unknown or not well-defined." In this scenario, applying the metamorphic relation (speed differences) and checking the transformed outcome (arrival times) fits the definition of metamorphic testing. (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.5, page 69 of 99)

### NEW QUESTION # 133

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

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

**Answer: D**

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.

### NEW QUESTION # 134

A team of software testers is attempting to create an AI algorithm to assist in software testing. This particular team has gone through over 40 iterations of testing and cannot afford to spend as much time as it takes to run the full regression test suite. They are hoping to have the algorithm reduce the amount of testing required thus reducing the time needed for each testing cycle.

How can an AI-based tool be expected to assist in this reduction?

- A. By performing optimization of the data from past iterations to see where the most common defects occurred and select the corresponding test cases
- B. By performing bayesian analysis to estimate the types of human interactions that are expected to be seen in the system and then selecting those test cases
- C. By using a clustering method to quantify the relationships between test cases and then assigning each test case to a category
- D. By using A/B testing to compare the last update with the newest change and compare metrics between the two

**Answer: A**

Explanation:

AI-based tools can significantly optimize regression test suites by analyzing historical data, past test results, associated defects, and changes made to the software. These tools prioritize and select the most relevant test cases based on previous defect patterns and frequently failing features, which helps in reducing the test execution time while maintaining effectiveness.

The optimization process involves:

\* Prioritizing test cases: AI-based tools rank test cases based on past defect detection trends, ensuring that the most relevant tests are executed first.

\* Reducing redundant test cases: The tool can eliminate test cases that do not contribute significantly to defect detection, reducing overall test execution time.

\* Augmenting test cases: The AI can also suggest new test cases if certain features are more prone to defects.

This approach has been proven to reduce regression test suite sizes by up to 50% while maintaining fault detection capabilities.

\* Section 11.4 - Using AI for the Optimization of Regression Test Suites states that AI-based tools can optimize regression test suites by analyzing past test data and defect occurrences, leading to significant reductions in test execution time.

Reference from ISTQB Certified Tester AI Testing Study Guide:

### NEW QUESTION # 135

Which of the following is a technique used in machine learning?

- A. Equivalence partitioning
- B. Decision tables
- C. Boundary value analysis
- **D. Decision trees**

**Answer: D**

Explanation:

Decision trees are a widely used machine learning (ML) technique that falls under supervised learning. They are used for both classification and regression tasks and are popular due to their interpretability and effectiveness.

\* How Decision Trees Work:

\* The model splits the dataset into branches based on feature conditions.

\* It continues to divide the data until each subset belongs to a single category (classification) or predicts a continuous value (regression).

\* The final result is a tree structure where decisions are made at nodes, and predictions are given at leaf nodes.

\* Common Applications of Decision Trees:

\* Fraud detection

\* Medical diagnosis

\* Customer segmentation

\* Recommendation systems

\* B (Equivalence Partitioning): This is a software testing technique, not a machine learning method. It is used to divide input data into partitions to reduce test cases while maintaining coverage.

\* C (Boundary Value Analysis): Another software testing technique, used to check edge cases around input boundaries.

\* D (Decision Tables): A structured testing technique used to validate business rules and logic, not a machine learning method.

\* ISTQB CT-AI Syllabus (Section 3.1: Forms of Machine Learning - Decision Trees)

\* "Decision trees are used in classification and regression models and are fundamental ML algorithms".

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

Guide: Conclusion: Since decision trees are a core technique in machine learning, while the other options are software testing techniques, the correct answer is A.

### NEW QUESTION # 136

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