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## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>ML: Data: This section of the exam covers explaining the activities and challenges related to data preparation. It also covers how to test datasets create an ML model and recognize how poor data quality can cause problems with the resultant ML model.</li></ul>
Topic 3	<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 4	<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 5	<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 6	<ul style="list-style-type: none"><li>systems from those required for conventional systems.</li></ul>

Topic 7	<ul style="list-style-type: none"> <li>• <b>ML Functional Performance Metrics:</b> 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 8	<ul style="list-style-type: none"> <li>• <b>Testing AI-Specific Quality Characteristics:</b> In this section, the topics covered are about the challenges in testing created by the self-learning of AI-based systems.</li> </ul>
Topic 9	<ul style="list-style-type: none"> <li>• <b>Testing AI-Based Systems Overview:</b> In this section, focus is given to how system specifications for AI-based systems can create challenges in testing and explain automation bias and how this affects testing.</li> </ul>
Topic 10	<ul style="list-style-type: none"> <li>• <b>Machine Learning ML:</b> 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>
Topic 11	<ul style="list-style-type: none"> <li>• <b>Test Environments for AI-Based Systems:</b> This section is about factors that differentiate the test environments for AI-based</li> </ul>

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### ISTQB Certified Tester AI Testing Exam Sample Questions (Q72-Q77):

#### NEW QUESTION # 72

Which ONE of the following approaches to labelling requires the least time and effort?

SELECT ONE OPTION

- A. Pre-labeled dataset
- B. Outsourced
- C. Internal
- D. AI-Assisted

**Answer: A**

Explanation:

\* Labelling Approaches: Among the options provided, pre-labeled datasets require the least time and effort because the data has already been labeled, eliminating the need for further manual or automated labeling efforts.

\* Reference: ISTQB\_CT-AI\_Syllabus\_v1.0, Section 4.5 Data Labelling for Supervised Learning, which discusses various approaches to data labeling, including pre-labeled datasets, and their associated time and effort requirements.

#### NEW QUESTION # 73

A ML engineer is trying to determine the correctness of the new open-source implementation \*X\*, of a supervised regression algorithm implementation. R-Square is one of the functional performance metrics used to determine the quality of the model. Which ONE of the following would be an APPROPRIATE strategy to achieve this goal?

SELECT ONE OPTION

- A. Add 10% of the rows randomly and create another model and compare the R-Square scores of both the model.
- B. Train various models by changing the order of input features and verify that the R-Square score of these models vary significantly.
- C. Compare the R-Square score of the model obtained using two different implementations that utilize two different programming languages while using the same algorithm and the same training and testing data.
- D. Drop 10% of the rows randomly and create another model and compare the R-Square scores of both the models.

**Answer: C**

Explanation:

- \* A. Add 10% of the rows randomly and create another model and compare the R-Square scores of both the models.
  - \* Adding more data to the training set can affect the R-Square score, but it does not directly verify the correctness of the implementation.
  - \* B. Train various models by changing the order of input features and verify that the R-Square score of these models vary significantly.
  - \* Changing the order of input features should not significantly affect the R-Square score if the implementation is correct, but this approach is more about testing model robustness rather than correctness of the implementation.
  - \* C. Compare the R-Square score of the model obtained using two different implementations that utilize two different programming languages while using the same algorithm and the same training and testing data.
  - \* This approach directly compares the performance of two implementations of the same algorithm.
- If both implementations produce similar R-Square scores on the same training and testing data, it suggests that the new implementation "X" is correct.
- \* D. Drop 10% of the rows randomly and create another model and compare the R-Square scores of both the models.
  - \* Dropping data can lead to variations in the R-Square score but does not directly verify the correctness of the implementation.
- Therefore, option C is the most appropriate strategy because it directly compares the performance of the new implementation "X" with another implementation using the same algorithm and datasets, which helps in verifying the correctness of the implementation.

#### NEW QUESTION # 74

An e-commerce developer built an application for automatic classification of online products in order to allow customers to select products faster. The goal is to provide more relevant products to the user based on prior purchases. Which of the following factors is necessary for a supervised machine learning algorithm to be successful?

- A. Minimizing the amount of time spent training the algorithm
- B. Grouping similar products together before feeding them into the algorithm
- **C. Labeling the data correctly**
- D. Selecting the correct data pipeline for the ML training

**Answer: C**

Explanation:

The syllabus explains that supervised learning requires correctly labeled data so the algorithm can learn the relationship between input features and output labels:

"In supervised learning, the algorithm creates the ML model from labeled data during the training phase. The labeled data is used to infer the relationship between the input data and output labels." (Reference: ISTQB CT-AI Syllabus v1.0, Section 3.1.1)

#### NEW QUESTION # 75

Which of the following approaches would help overcome testing challenges associated with probabilistic and non-deterministic AI-based systems?

- A. Decompose the system test into multiple data ingestion tests to determine if the AI system is getting precise and accurate input data.
- B. Run the test several times to ensure that the AI always returns the same correct test result.
- **C. Run the test several times to generate a statistically valid test result to ensure that an appropriate number of answers are accurate.**
- D. Decompose the system test into multiple data ingestion tests to determine if the AI system is getting a sufficient volume of input data.

**Answer: C**

Explanation:

Probabilistic and non-deterministic AI-based systems do not always produce the same output for identical inputs. This makes traditional testing approaches ineffective. Instead, the best approach is to run tests multiple times and analyze results statistically.

\* Statistical Validity: Running tests multiple times ensures that observed results are statistically significant. Instead of relying on a single test run, analyzing multiple iterations helps determine trends, probabilities, and outliers.

\* Expected Result Tolerance: AI-based systems may produce different results within an acceptable range. Defining acceptable tolerances (e.g., "result must be within 2% of the optimal value") improves test effectiveness.

- \* A (Run Several Times for the Same Correct Result): AI systems are often inherently non-deterministic and may not return the exact same result every time. Expecting identical outputs contradicts the nature of these systems.
  - \* B & C (Decomposing Tests into Data Ingestion Tests): While data ingestion quality is important, it does not directly solve the issue of probabilistic test results. Statistical analysis is the key approach.
  - \* ISTQB CT-AI Syllabus (Section 8.4: Challenges Testing Probabilistic and Non-Deterministic AI-Based Systems)
  - \* "For probabilistic systems, running a test multiple times may be necessary to obtain a statistically valid test result."
  - \* "Where a single definitive output is not possible, results should be analyzed statistically rather than relying on individual test cases."
- Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: Since probabilistic AI systems do not always return the same result, the best approach is to run multiple test iterations and validate results statistically. Hence, the correct answer is D.

## NEW QUESTION # 76

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

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

**Answer: D**

Explanation:

The syllabus states that non-determinism is one of the key challenges for ensuring safety in AI-based systems:

"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, and lack of robustness." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.8, page 25 of 99)

## NEW QUESTION # 77

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