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ISTQB CT-AI Exam Syllabus Topics:

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

Topic 4	<ul style="list-style-type: none"> Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 5	<ul style="list-style-type: none"> 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.
Topic 6	<ul style="list-style-type: none"> Testing AI-Based Systems Overview: 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.
Topic 7	<ul style="list-style-type: none"> 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.
Topic 8	<ul style="list-style-type: none"> Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 9	<ul style="list-style-type: none"> 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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q101-Q106):

NEW QUESTION # 101

Which ONE of the following options is an example that BEST describes a system with AI-based autonomous functions?

SELECT ONE OPTION

- A. A system that utilizes human beings for all important decisions.
- B. A fully automated manufacturing plant that uses no software.
- C. A system that is fully able to respond to its environment.
- D. A system that utilizes a tool like Selenium.

Answer: C

Explanation:

* AI-Based Autonomous Functions: An AI-based autonomous system is one that can respond to its environment without human intervention. The other options either involve human decisions or do not use AI at all.

* Reference: ISTQB_CT-AI_Syllabus_v1.0, Sections on Autonomy and Testing Autonomous AI-Based Systems.

NEW QUESTION # 102

Which ONE of the following combinations of Training, Validation, Testing data is used during the process of learning/creating the model?

SELECT ONE OPTION

- A. Training data - validation data
- B. Training data * test data

- C. Validation data - test data
- D. Training data - validation data - test data

Answer: D

Explanation:

The process of developing a machine learning model typically involves the use of three types of datasets:

Training Data: This is used to train the model, i.e., to learn the patterns and relationships in the data.

Validation Data: This is used to tune the model's hyperparameters and to prevent overfitting during the training process.

Test Data: This is used to evaluate the final model's performance and to estimate how it will perform on unseen data.

Let's analyze each option:

A . Training data - validation data - test data

This option correctly includes all three types of datasets used in the process of creating and validating a model. The training data is used for learning, validation data for tuning, and test data for final evaluation.

B . Training data - validation data

This option misses the test data, which is crucial for evaluating the model's performance on unseen data after the training and validation phases.

C . Training data - test data

This option misses the validation data, which is important for tuning the model and preventing overfitting during training.

D . Validation data - test data

This option misses the training data, which is essential for the initial learning phase of the model.

Therefore, the correct answer is A because it includes all necessary datasets used during the process of learning and creating the model: training, validation, and test data.

NEW QUESTION # 103

Which of the following decisions is BEST as a test approach for the described situation?

Choose ONE option (1 out of 4)

- A. You plan to manually execute regular regression tests of the new camera function, particularly for system tests.
- B. You execute the test cases from the old camera model at the integration test level; no further dynamic tests of the operating data pipeline are necessary.
- C. You plan experience-based testing by the entire team at the system test level to ensure that the end users are satisfied.
- D. You plan to perform reviews and exploratory data analysis of the image data sets to reduce the risk of a lack of representativeness of this data.

Answer: C

Explanation:

The ISTQB CT-AI syllabus emphasizes that testing AI-based systems requires cross-functional collaboration and experience-based testing when parts of the team lack domain knowledge. In this scenario, the ML expert understands ML and dataset preparation but lacks knowledge of camera system behavior, the device's operational data pipeline, and end-user workflows. The remainder of the team understands the domain and system testing but not ML. Section 4.4 - Human Factors and AI Testing and 4.3 - System Testing of AI Components highlight that when domain understanding is unevenly distributed, experience-based testing conducted by the full team (testers, developers, domain experts) is the most effective approach. This ensures that AI outputs align with actual user expectations and system behavior. Option C aligns exactly with this principle.

Option A is too limited and does not address the need to validate ML integration. Option B is incorrect because reusing old test cases overlooks AI-specific risks in the operating data pipeline. Option D is useful but focuses only on data representativeness, not system-level user validation. Therefore, Option C is the best, syllabus-aligned test approach.

NEW QUESTION # 104

An airline has created an ML model to project fuel requirements for future flights. The model imports weather data such as wind speeds and temperatures, calculates flight routes based on historical routings from air traffic control, and estimates loads from average passenger and baggage weights. The model performed within an acceptable standard for the airline throughout the summer but as winter set in, the load weights became less accurate. After some exploratory data analysis, it became apparent that luggage weights were higher in the winter than in summer.

Which of the following statements BEST describes the problem and how it could have been prevented?

- A. The model suffers from drift and therefore should be regularly tested to ensure that any occurrences of drift are detected soon enough for the problem to be mitigated

- B. The model suffers from drift and therefore the performance standard should be eased until a new model with more transparency can be developed
- C. The model suffers from a lack of transparency and therefore should be regularly tested to ensure that any progressive errors are detected soon enough for the problem to be mitigated
- D. The model suffers from corruption and therefore should be reloaded into the computer system being used, preferably with a method of version control to prevent further changes

Answer: A

Explanation:

The syllabus states:

"Concept drift occurs when the operational environment changes without the trained model changing correspondingly. The outputs of the model become less accurate and less useful. Therefore, the operational model should be regularly evaluated against its acceptance criteria." (Reference: ISTQB CT-AI Syllabus v1.0, Section 7.6, Page 54 of 99)

NEW QUESTION # 105

A motorcycle engine repair shop owner wants to detect a leaking exhaust valve and fix it before it fails and causes catastrophic damage to the engine. The shop developed and trained a predictive model with historical data files from known health engines and ones which experienced a catastrophic fails due to exhaust valve failure. The shop evaluated 200 engines using this model and then disassembled the engines to assess the true state of the valves, recording the results in the confusion matrix below.

What is the precision of this predictive model

- A. 98.9%
- B. 90.0%
- C. 94.5%
- D. 94.2%

Answer: D

Explanation:

Precision is a performance metric used to evaluate the accuracy of positive predictions in a classification model. It is defined by the formula:

$$\text{Precision} = \frac{TP}{TP + FP} \times 100\%$$
 Where:

* TP (True Positives)= Number of correctly predicted positive cases

* FP (False Positives)= Number of incorrectly predicted positive cases

The confusion matrix provided in the question would typically list these values. Based on ISTQB's guidelines for calculating precision, selecting the correct number of true positives and false positives from the given data should yield 94.2% as the precision.

* Section 5.1 - Confusion Matrix and ML Functional Performance Metrics explains the calculation of precision using the confusion matrix.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 106

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