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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none">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.
Topic 4	<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 5	<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 6	<ul style="list-style-type: none">systems from those required for conventional systems.
Topic 7	<ul style="list-style-type: none">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.
Topic 8	<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 9	<ul style="list-style-type: none">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.

Topic 10	<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 11	<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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14

Which option gives the correct values for accuracy and precision from the confusion matrix?
Choose ONE option (1 out of 4)

- A. Accuracy = 80%, Precision = 50%
- B. Accuracy = 80%, Precision = 75%
- C. Accuracy = 75%, Precision = 80%
- D. Accuracy = 50%, Precision = 75%

Answer: B

Explanation:

From the confusion matrix:

* True Positives (TP) = 15

* False Positives (FP) = 5

* False Negatives (FN) = 15

* True Negatives (TN) = 65

Accuracy = $(TP + TN) / \text{Total}$

$= (15 + 65) / 100$

$= 80\%$

Precision = $TP / (TP + FP)$

$= 15 / (15 + 5)$

$= 15 / 20$

$= 75\%$

Section 3.2 - Functional Performance Criteria in the syllabus explains accuracy and precision exactly these ways when evaluating ML classification performance.

Option B is therefore the only correct pair of values.

NEW QUESTION # 15

Which ONE of the following options does NOT describe an AI technology related characteristic which differentiates AI test environments from other test environments?

SELECT ONE OPTION

- A. The challenge of mimicking undefined scenarios generated due to self-learning
- B. Challenges resulting from low accuracy of the models.
- **C. Challenges in the creation of scenarios of human handover for autonomous systems.**
- D. The challenge of providing explainability to the decisions made by the system.

Answer: C

Explanation:

AI test environments have several unique characteristics that differentiate them from traditional test environments. Let's evaluate each option:

A . Challenges resulting from low accuracy of the models.

Low accuracy is a common challenge in AI systems, especially during initial development and training phases. Ensuring the model performs accurately in varied and unpredictable scenarios is a critical aspect of AI testing.

B . The challenge of mimicking undefined scenarios generated due to self-learning.

AI systems, particularly those that involve machine learning, can generate undefined or unexpected scenarios due to their self-learning capabilities. Mimicking and testing these scenarios is a unique challenge in AI environments.

C . The challenge of providing explainability to the decisions made by the system.

Explainability, or the ability to understand and articulate how an AI system arrives at its decisions, is a significant and unique challenge in AI testing. This is crucial for trust and transparency in AI systems.

D . Challenges in the creation of scenarios of human handover for autonomous systems.

While important, the creation of scenarios for human handover in autonomous systems is not a characteristic unique to AI test environments. It is more related to the operational and deployment challenges of autonomous systems rather than the intrinsic technology-related characteristics of AI .

Given the above points, option D is the correct answer because it describes a challenge related to operational deployment rather than a technology-related characteristic unique to AI test environments.

NEW QUESTION # 16

"AllerEgo" is a product that uses self-learning to predict the behavior of a pilot under combat situation for a variety of terrains and enemy aircraft formations. Post training the model was exposed to the real- world data and the model was found to be behaving poorly. A lot of data quality tests had been performed on the data to bring it into a shape fit for training and testing.

Which ONE of the following options is least likely to describes the possible reason for the fall in the performance, especially when considering the self-learning nature of the AI system?

SELECT ONE OPTION

- A. There was an algorithmic bias in the AI system.
- **B. The fast pace of change did not allow sufficient time for testing.**
- C. The difficulty of defining criteria for improvement before the model can be accepted.
- D. The unknown nature and insufficient specification of the operating environment might have caused the poor performance.

Answer: B

Explanation:

* A. The difficulty of defining criteria for improvement before the model can be accepted.

* Defining criteria for improvement is a challenge in the acceptance of AI models, but it is not directly related to the performance drop in real-world scenarios. It relates more to the evaluation and deployment phase rather than affecting the model's real-time performance post-deployment.

* B. The fast pace of change did not allow sufficient time for testing.

* This can significantly affect the model's performance. If the system is self-learning, it needs to adapt quickly, and insufficient testing time can lead to incomplete learning and poor performance.

* C. The unknown nature and insufficient specification of the operating environment might have caused the poor performance.

* This is highly likely to affect performance. Self-learning AI systems require detailed specifications of the operating environment to adapt and learn effectively. If the environment is insufficiently specified, the model may fail to perform accurately in real-world scenarios.

* D. There was an algorithmic bias in the AI system.

* Algorithmic bias can significantly impact the performance of AI systems. If the model has biases, it will not perform well across different scenarios and data distributions.

Given the context of the self-learning nature and the need for real-time adaptability, option A is least likely to describe the fall in performance because it deals with acceptance criteria rather than real-time performance issues.

NEW QUESTION # 17

Which ONE of the following statements correctly describes the importance of flexibility for AI systems?

SELECT ONE OPTION

- **A. Flexible AI systems allow for easier modification of the system as a whole.**
- B. AI systems are inherently flexible.
- C. Self-learning systems are expected to deal with new situations without explicitly having to program for it.
- D. AI systems require changing of operational environments; therefore, flexibility is required.

Answer: A

Explanation:

Flexibility in AI systems is crucial for various reasons, particularly because it allows for easier modification and adaptation of the system as a whole.

AI systems are inherently flexible (A): This statement is not correct. While some AI systems may be designed to be flexible, they are not inherently flexible by nature. Flexibility depends on the system's design and implementation.

AI systems require changing operational environments; therefore, flexibility is required (B): While it's true that AI systems may need to operate in changing environments, this statement does not directly address the importance of flexibility for the modification of the system.

Flexible AI systems allow for easier modification of the system as a whole (C): This statement correctly describes the importance of flexibility. Being able to modify AI systems easily is critical for their maintenance, adaptation to new requirements, and improvement. Self-learning systems are expected to deal with new situations without explicitly having to program for it (D): This statement relates to the adaptability of self-learning systems rather than their overall flexibility for modification.

Hence, the correct answer is C. Flexible AI systems allow for easier modification of the system as a whole.

Reference:

ISTQB CT-AI Syllabus Section 2.1 on Flexibility and Adaptability discusses the importance of flexibility in AI systems and how it enables easier modification and adaptability to new situations.

Sample Exam Questions document, Question #30 highlights the importance of flexibility in AI systems.

NEW QUESTION # 18

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

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

Answer: A

Explanation:

Decision trees are a foundational algorithm used in supervised machine learning. The syllabus describes:

"A decision tree is a tree-like ML model whose nodes represent decisions and whose branches represent possible outcomes."

(Reference: ISTQB CT-AI Syllabus v1.0, Section 3.4)

NEW QUESTION # 19

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