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## ISTQB CT-AI Exam Syllabus Topics:

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

Topic 2	<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 3	<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 4	<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 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>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>
Topic 7	<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 8	<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 9	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 10	<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>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q22-Q27):

### NEW QUESTION # 22

Which statement about testing to prevent data poisoning and adversarial attacks is correct?

Choose ONE option (1 out of 4)

- A. Regression testing can be used to verify data sourcing policies to ensure the source of training data.
- B. Using AIB testing to identify data poisoning can better identify outliers than exploratory data analysis.
- C. Adversarial testing consists of using adversarial attacks to identify vulnerabilities so that they can be eliminated.**
- D. The adversarial examples identified during adversarial testing must not be added to the training data so that they do not poison the model.

**Answer: C**

Explanation:

The ISTQB CT-AI syllabus explains in Section 4.5 - Testing AI-Specific Risks that adversarial testing is a structured test activity in which testers apply adversarial attacks - crafted or perturbed inputs - to intentionally expose weaknesses in the ML model. The purpose is to identify vulnerabilities that could be exploited through data poisoning, evasion attacks, or input manipulation.

Option C correctly reflects this syllabus definition: adversarial testing is about using attacks to locate weaknesses so they can be removed or mitigated.

Option A is incorrect because regression testing does not verify data sourcing policies; it verifies unchanged functionality after modifications. Option B is incorrect because adversarial examples are often added to training datasets to improve robustness (a practice called adversarial training), not excluded. Option D is incorrect because AIB testing is not described as superior to exploratory data analysis in outlier detection; both have different purposes, and EDA remains essential for data quality assessment. Thus, Option C is consistent with syllabus-defined adversarial testing.

### NEW QUESTION # 23

Written requirements are given in text documents, which ONE of the following options is the BEST way to generate test cases from these requirements?

SELECT ONE OPTION

- A. Analyzing source code for generating test cases
- B. GUI analysis by computer vision
- C. **Natural language processing on textual requirements**
- D. Machine learning on logs of execution

**Answer: C**

Explanation:

When written requirements are given in text documents, the best way to generate test cases is by using Natural Language Processing (NLP). Here's why:

\* Natural Language Processing (NLP): NLP can analyze and understand human language. It can be used to process textual requirements to extract relevant information and generate test cases. This method is efficient in handling large volumes of textual data and identifying key elements necessary for testing.

\* Why Not Other Options:

\* Analyzing source code for generating test cases: This is more suitable for white-box testing where the code is available, but it doesn't apply to text-based requirements.

\* Machine learning on logs of execution: This approach is used for dynamic analysis based on system behavior during execution rather than static textual requirements.

\* GUI analysis by computer vision: This is used for testing graphical user interfaces and is not applicable to text-based requirements.

References: This aligns with the methodology discussed in the syllabus under the section on using AI for generating test cases from textual requirements.

### NEW QUESTION # 24

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

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

**Answer: D**

Explanation:

The syllabus defines data acquisition as consisting of three steps:

"Data acquisition: The activity of acquiring data relevant to the business problem to be solved by an ML model, typically involving the activities of identifying, gathering and labelling data." (Reference: ISTQB CT-AI Syllabus v1.0, Section 4.1, page 33 of 99)

### NEW QUESTION # 25

Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?

SELECT ONE OPTION

- A. **Testing the speed of the training of the model.**
- B. Testing the API of the service powered by the ML model.
- C. Testing the speed of the prediction by the model.
- D. Testing the accuracy of the classification model.

**Answer: A**

Explanation:

The question asks which test is least likely to be performed during the ML model testing phase. Let's consider each option:

\* Testing the accuracy of the classification model (A): Accuracy testing is a fundamental part of the ML model testing phase. It ensures that the model correctly classifies the data as intended and meets the required performance metrics.

\* Testing the API of the service powered by the ML model (B): Testing the API is crucial, especially if the ML model is deployed as part of a service. This ensures that the service integrates well with other systems and that the API performs as expected.

- \* Testing the speed of the training of the model (C): This is least likely to be part of the ML model testing phase. The speed of training is more relevant during the development phase when optimizing and tuning the model. During testing, the focus is more on the model's performance and behavior rather than how quickly it was trained.
- \* Testing the speed of the prediction by the model (D): Testing the speed of prediction is important to ensure that the model meets performance requirements in a production environment, especially for real-time applications.
- :
- ISTQB CT-AI Syllabus Section 3.2 on ML Workflow and Section 5 on ML Functional Performance Metrics discuss the focus of testing during the model testing phase, which includes accuracy and prediction speed but not the training speed.

### NEW QUESTION # 26

"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

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

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

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

There was an algorithmic bias in the AI system.

- A. 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.
- B. 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.
- C. **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.**
- D. 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.

#### Answer: C

Explanation:

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 # 27

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