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## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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>• 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>• 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 5	<ul style="list-style-type: none"> <li>• systems from those required for conventional systems.</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>• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based</li> </ul>
Topic 8	<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>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q93-Q98):

### NEW QUESTION # 93

You have access to the training data that was used to train an AI-based system. You can review this information and use it as a guideline when creating your tests. What type of characteristic is this?

- A. Transparency
- B. Accessibility
- C. Explorability
- D. Autonomy

**Answer: A**

Explanation:

AI-based systems can sometimes behave like black boxes, where the internal decision-making process is unclear. Transparency refers to the ability to inspect and understand the training data, algorithms, and decision-making process of the AI system.

\* Transparency ensures that testers and stakeholders can review how an AI system was trained.

\* Access to training data is a key factor in transparency because it allows testers to analyze biases, completeness, and representativeness of the dataset.

\* Transparency is an essential characteristic of explainable AI (XAI).

\* Having access to training data means that testers can investigate how data influences AI behavior.

\* Regulatory and ethical AI guidelines emphasize transparency.

\* Many AI ethics frameworks, such as GDPR and Trustworthy AI guidelines, recommend transparency to ensure fair and explainable AI decision-making.

\* (A) Autonomy#

\* Autonomy refers to an AI system's ability to make decisions independently without human intervention. However, having access to training data does not relate to autonomy, which is more about self-learning and decision-making without human control.

\* (B) Explorability#

\* Explorability refers to the ability to test AI systems interactively to understand their behavior, but it does not directly relate to accessing training data.

\* (D) Accessibility#

\* Accessibility refers to the ease with which people can use the system, not the ability to inspect the training data.

\* Transparency is the ease with which the training data and algorithm used to generate a model can be understood. "Transparency: This is considered to be the ease with which the algorithm and training data used to generate the model can be determined." Why is Option C Correct? Why Other Options are Incorrect? References from ISTQB Certified Tester AI Testing Study Guide Thus, option C is the correct answer, as transparency involves access to training data, allowing testers to understand AI decision-making processes.

### NEW QUESTION # 94

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

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

**Answer: D**

Explanation:

According to the ISTQB Certified Tester AI Testing (CT-AI) syllabus, data acquisition, a critical step in data preparation for machine learning (ML) workflows, consists of three key activities:

\* Identification: This step involves determining the types of data required for training and prediction. For example, in a self-driving car application, data types such as radar, video, laser imaging, and LiDAR (Light Detection and Ranging) data may be identified as necessary sources.

\* Gathering: After identifying the required data types, the sources from which the data will be collected are determined, along with the appropriate collection methods. An example could be gathering financial data from the International Monetary Fund (IMF) and integrating it into an AI-based system.

\* Labeling: This process involves annotating or tagging the collected data to make it meaningful for supervised learning models. Labeling is an essential activity that helps machine learning algorithms differentiate between categories and make accurate predictions.

These activities ensure that the data is suitable for training and testing machine learning models, forming the foundation of data preparation.

### NEW QUESTION # 95

A local business has a mail pickup/delivery robot for their office. The robot currently uses a track to move between pickup/drop-off locations. When it arrives at a destination, the robot stops to allow a human to remove or deposit mail. The office has decided to upgrade the robot to include AI capabilities that allow the robot to perform its duties without a track, without running into obstacles, and without human intervention.

The test team is creating a list of new and previously established test objectives and acceptance criteria to be used in the testing of the robot upgrade. Which of the following test objectives will test an AI quality characteristic for this system?

- A. The robot must complete 99.99% of its deliveries each day
- B. The robot must record the time of each delivery which is compiled into a report
- C. The robot must evolve to optimize its routing
- D. The robot must recharge for no more than six hours a day

**Answer: C**

Explanation:

In the syllabus, the evolution characteristic for AI-based systems means the ability of the system to evolve and adapt its behavior in response to changes in the environment or in its own performance:

"Evolution is the system's ability to change itself to adapt to new situations, different hardware, or a changing operational environment." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.3)

### NEW QUESTION # 96

Which of the following is an example of an input change where it would be expected that the AI system should be able to adapt?

- A. It has been trained to recognize cats and is given an image of a dog
- B. It has been trained to analyze customer buying trend data and is given information on supplier cost data
- C. It has been trained to recognize human faces at a particular resolution and it is given a human face image captured with a higher resolution
- D. It has been trained to analyze mathematical models and is given a set of landscape pictures to classify

**Answer: C**

Explanation:

The syllabus explains that input changes that are in the same domain as what was used for training are expected to be handled with adaptability:

"Adaptability refers to the ability of a system to adjust its behavior in response to changes in its environment or inputs. This includes changes to the inputs which are still within the expected operational range of the system, such as resolution changes in images or sensor data." (Reference: ISTQB CT-AI Syllabus v1.0, Section 7.6 and 8.2)

### NEW QUESTION # 97

Which of the following is correct regarding the layers of a deep neural network?

- A. There must be a minimum of five total layers to be considered deep
- B. The output layer is not connected with the other layers to maintain integrity
- C. There is only an input and output layer
- D. There is at least one internal hidden layer

**Answer: D**

Explanation:

A deep neural network (DNN) is a type of artificial neural network that consists of multiple layers between the input and output layers. The ISTQB Certified Tester AI Testing (CT-AI) Syllabus outlines the following characteristics of a DNN:

\* Structure of a Deep Neural Network:

\* A DNN comprises at least three types of layers:

\* Input layer: Receives the input data.

\* Hidden layers: Perform complex feature extraction and transformations.

\* Output layer: Produces the final prediction or classification.

\* Analysis of Answer Choices:

\* A (Only input and output layers) # Incorrect, as a DNN must have at least one hidden layer.

\* B (At least one internal hidden layer) # Correct, as a neural network must have hidden layers to be considered deep.

\* C (Minimum of five layers required) # Incorrect, as there is no strict definition that requires at least five layers.

\* D (Output layer is not connected to other layers) # Incorrect, as the output layer must be connected to the hidden layers.

Thus, Option B is the correct answer, as a deep neural network must have at least one hidden layer.

Certified Tester AI Testing Study Guide References:

\* ISTQB CT-AI Syllabus v1.0, Section 6.1 (Neural Networks and Deep Neural Networks)

\* ISTQB CT-AI Syllabus v1.0, Section 6.2 (Structure of Deep Neural Networks).

## NEW QUESTION # 98

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