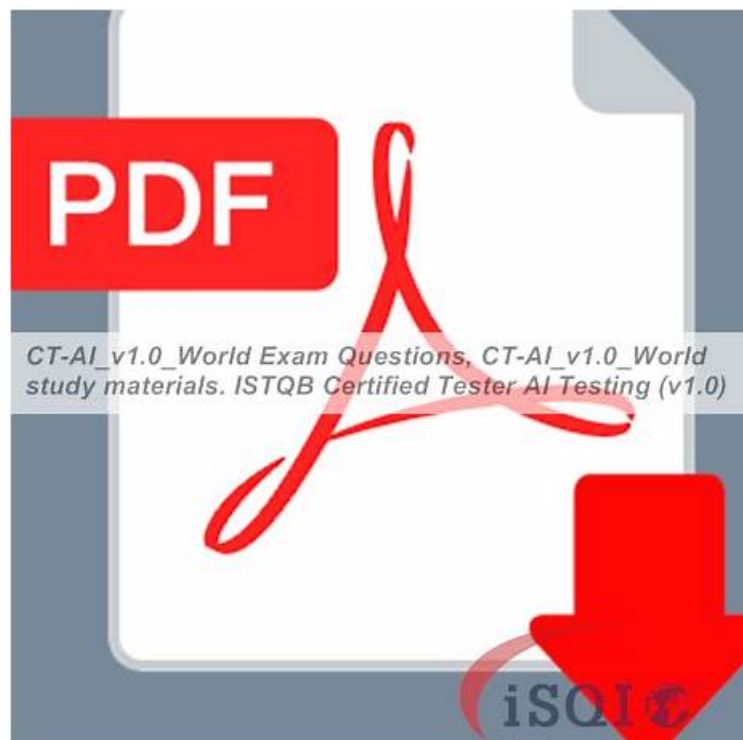


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## CT-AI Pass-Sure Materials: Certified Tester AI Testing Exam - CT-AI Training Guide & CT-AI Quiz Torrent

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### ISTQB CT-AI Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<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 4	<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 5	<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 6	<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>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q15-Q20):

### NEW QUESTION # 15

An engine manufacturing facility wants to apply machine learning to detect faulty bolts. Which of the following would result in bias in the model?

- A. Selecting training data purposely excluding specific faulty conditions
- B. Selecting testing data from a different dataset than the training dataset
- C. Selecting testing data from a boat manufacturer's bolt longevity data
- D. Selecting training data by purposely including all known faulty conditions

**Answer: A**

Explanation:

The syllabus defines bias as:

"Bias is the systematic difference in treatment of certain objects, people or groups in comparison to others." It also discusses:

"Sample bias can occur if the data used for training the model does not represent the operational environment, or if some relevant faulty conditions are excluded deliberately." (Reference: ISTQB CT-AI Syllabus v1.0, Section 7.6 and 8.3)

### NEW QUESTION # 16

A transportation company operates three types of delivery vehicles in its fleet. The vehicles operate at different speeds (slow, medium, and fast). The transportation company is attempting to optimize scheduling and has created an AI-based program to plan routes for its vehicles using records from the medium-speed vehicle traveling to selected destinations. The test team uses this data in metamorphic testing to test the accuracy of the estimated travel times created by the AI route planner with the actual routes and times.

Which of the following describes the next phase of metamorphic testing?

- A. The team decomposes each route into the relevant components that affect the travel time, such as traffic density and vehicle power. The team then uses statistical analysis to characterize the influence of each component to calculate the fast and slow vehicle route times.
- B. The team tests the time required for the fast and slow vehicles to travel the same route as the medium vehicle. Then, by calculating the speed difference, they then predict how much faster or slower the vehicles will travel. That information is then used to verify that the arrival time of the vehicles meets the expected result.
- C. The team uses the same AI route planner to create routes that are longer and shorter but follow the same track. Finally, by driving the fast vehicles on the long routes and slow vehicles on the short routes and vice versa, the AI system will have enough information to infer travel times for all vehicles on all routes.

- D. The team uses an AI system to select the most dissimilar routes. With this information, any of the AI routes can be metaphorically transformed into a fast or slow route.

**Answer: B**

Explanation:

The syllabus describes metamorphic testing as:

"Testing involves defining metamorphic relations and then applying those relations to check that the transformations result in expected outcomes, even when the expected output of the system is unknown or not well-defined." In this scenario, applying the metamorphic relation (speed differences) and checking the transformed outcome (arrival times) fits the definition of metamorphic testing. (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.5, page 69 of 99)

#### NEW QUESTION # 17

Data used for an object detection ML system was found to have been labelled incorrectly in many cases.

Which ONE of the following options is most likely the reason for this problem?

SELECT ONE OPTION

- A. Accuracy issues
- B. Privacy issues
- C. Security issues
- D. Bias issues

**Answer: A**

Explanation:

The question refers to a problem where data used for an object detection ML system was labelled incorrectly.

This issue is most closely related to "accuracy issues." Here's a detailed explanation:

\* Accuracy Issues: The primary goal of labeling data in machine learning is to ensure that the model can accurately learn and make predictions based on the given labels. Incorrectly labeled data directly impacts the model's accuracy, leading to poor performance because the model learns incorrect patterns.

\* Why Not Other Options:

\* Security Issues: This pertains to data breaches or unauthorized access, which is not relevant to the problem of incorrect data labeling.

\* Privacy Issues: This concerns the protection of personal data and is not related to the accuracy of data labeling.

\* Bias Issues: While bias in data can affect model performance, it specifically refers to systematic errors or prejudices in the data rather than outright incorrect labeling.

References: This explanation is consistent with the concepts covered in the ISTQB CT-AI syllabus under dataset quality issues and their impact on machine learning models.

#### NEW QUESTION # 18

Which of the following is a dataset issue that can be resolved using pre-processing?

- A. Insufficient data
- B. Numbers stored as strings
- C. Wanted outliers
- D. Invalid data

**Answer: B**

Explanation:

The syllabus describes that data pre-processing includes cleaning (e.g., fixing or removing invalid data) and transforming data (e.g., changing data types such as numbers stored as strings).

"Transformation: The format of the given data is changed... converting categorical data into numerical data, changing image formats..." (Reference: ISTQB CT-AI Syllabus v1.0, Section 4.1.1, Page 34 of 99)

#### NEW QUESTION # 19

Upon testing a model used to detect rotten tomatoes, the following data was observed by the test engineer, based on certain number

of tomato images.

Confusion Matrix	Actually Rotten	Actually Fresh
Predicted Rotten	45	8
Predicted Fresh	5	42

For this confusion matrix which combinations of values of accuracy, recall, and specificity respectively is CORRECT?  
SELECT ONE OPTION

- A. 0.84,1,0.9
- **B. 0.87,0.9, 0.84**
- C. 1,0.87,0.84
- D. 1,0.9, 0.8

**Answer: B**

Explanation:

To calculate the accuracy, recall, and specificity from the confusion matrix provided, we use the following formulas:

Confusion Matrix:

Actually Rotten: 45 (True Positive), 8 (False Positive)

Actually Fresh: 5 (False Negative), 42 (True Negative)

Accuracy:

Accuracy is the proportion of true results (both true positives and true negatives) in the total population.

Formula:  $\text{Accuracy} = \frac{TP + TN}{TP + TN + FP + FN}$

Calculation:  $\text{Accuracy} = \frac{45 + 42}{45 + 42 + 8 + 5} = \frac{87}{100} = 0.87$

Recall (Sensitivity):

Recall is the proportion of true positive results in the total actual positives.

Formula:  $\text{Recall} = \frac{TP}{TP + FN}$

Calculation:  $\text{Recall} = \frac{45}{45 + 5} = \frac{45}{50} = 0.9$

Specificity:

Specificity is the proportion of true negative results in the total actual negatives.

Formula:  $\text{Specificity} = \frac{TN}{TN + FP}$

Calculation:  $\text{Specificity} = \frac{42}{42 + 8} = \frac{42}{50} = 0.84$

Therefore, the correct combinations of accuracy, recall, and specificity are 0.87, 0.9, and 0.84 respectively.

Reference:

ISTQB CT-AI Syllabus, Section 5.1, Confusion Matrix, provides detailed formulas and explanations for calculating various metrics

including accuracy, recall, and specificity.

"ML Functional Performance Metrics" (ISTQB CT-AI Syllabus, Section 5).

## NEW QUESTION # 20

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