

# Valid CT-AI Test Notes - CT-AI Test King



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## ISTQB CT-AI Exam Syllabus Topics:

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

- 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.

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### ISTQB Certified Tester AI Testing Exam Sample Questions (Q68-Q73):

#### NEW QUESTION # 68

The following confusion matrix represents the functional performance of a classifier.

Which ONE of the following is the correct calculation for the accuracy of the classifier?

- A.  $60 / (60 + 20) * 100\% = 75\%$
- B.  $60 / (60 + 9) * 100\% = 87\%$
- C.  $(60 + 11) / (60 + 11 + 20 + 9) * 100\% = 71\%$
- D.  $2 * (60 / (60 + 20) * 60 / (60 + 9)) / (60 / (60 + 20) + 60 / (60 + 9)) * 100\% = 80\%$

**Answer: C**

Explanation:

Accuracy = (True Positives + True Negatives) / (Total Samples)

In this case:

- True Positives (TP) = 60
- True Negatives (TN) = 11
- False Positives (FP) = 20
- False Negatives (FN) = 9

Accuracy =  $(60 + 11) / (60 + 11 + 20 + 9) * 100\% = 71\%$

#### NEW QUESTION # 69

A software component uses machine learning to recognize the digits from a scan of handwritten numbers. In the scenario above, which type of Machine Learning (ML) is this an example of?

SELECT ONE OPTION

- A. Classification
- B. Reinforcement learning
- C. Regression
- D. Clustering

**Answer: A**

Explanation:

Recognizing digits from a scan of handwritten numbers using machine learning is an example of classification. Here's a breakdown:

\* Classification: This type of machine learning involves categorizing input data into predefined classes.

In this scenario, the input data (handwritten digits) are classified into one of the 10 digit classes (0-9).

\* Why Not Other Options:

\* Reinforcement Learning: This involves learning by interacting with an environment to achieve a goal, which does not fit the problem of recognizing digits.

\* Regression: This is used for predicting continuous values, not discrete categories like digit recognition.

\* Clustering: This involves grouping similar data points together without predefined classes, which is not the case here.

References: The explanation is based on the definitions of different machine learning types as outlined in the ISTQB CT-AI syllabus, specifically under supervised learning and classification.

#### NEW QUESTION # 70

Which ONE of the following statements about the hardware used to implement ML systems is MOST likely to be correct?

- A. Specialist hardware is necessary for ML
- **B. Support for complex operations is required**
- C. A higher clock speed is required
- D. Less bits are required for hardware supporting ML

**Answer: B**

Explanation:

ML systems often require hardware that supports complex operations, such as matrix multiplications and other linear algebra computations. These operations are fundamental to many machine learning algorithms, particularly in deep learning. Specialist hardware (e.g., GPUs) may be used for efficiency, but complex operations are the core requirement.

#### NEW QUESTION # 71

Which ONE of the following options BEST DESCRIBES clustering?

- A. Clustering is supervised learning.
- B. Clustering requires you to know the classes.
- **C. Clustering is done without prior knowledge of output classes.**
- D. Clustering is classification of a continuous quantity.

**Answer: C**

Explanation:

Clustering is a type of machine learning technique used to group similar data points into clusters.

It is a key concept in unsupervised learning, where the algorithm tries to find patterns or groupings in data without prior knowledge of output classes.

In clustering, the algorithm groups data points into clusters without any prior knowledge of the classes. It discovers the inherent structure in the data.

#### NEW QUESTION # 72

Which of the following is one of the reasons for data mislabelling?

- **A. Lack of domain knowledge**
- B. Interoperability error
- C. Small datasets
- D. Expert knowledge

**Answer: A**

Explanation:

The syllabus lists multiple reasons for mislabelled data, including the lack of domain knowledge:

"Lack of required domain knowledge may lead to incorrect labelling."

(Reference: ISTQB CT-AI Syllabus v1.0, Section 4.5.2, page 38 of 99)

#### NEW QUESTION # 73

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