

# CT-AI Exam Introduction & Exam CT-AI Score



DOWNLOAD the newest Exam-Killer CT-AI PDF dumps from Cloud Storage for free: <https://drive.google.com/open?id=1RKIBQSMZpBQcH6QIYeNKXC4fG1nimeec>

As you know, opportunities are reserved for those who are prepared. Everyone wants to stand out in such a competitive environment, but they don't know how to act. Maybe our Certified Tester AI Testing Exam exam questions can help you. Having a certificate may be something you have always dreamed of, because it can prove that you have a certain capacity. Our learning materials can provide you with meticulous help and help you get your certificate. Our CT-AI training prep is credible and their quality can stand the test. Therefore, our practice materials can help you get a great financial return in the future and you will have a good quality of life.

ISTQB offers up-to-date ISTQB CT-AI practice material consisting of three formats that will prove to be vital for you. You can easily ace the CT-AI exam on the first attempt if you prepare with this material. The ISTQB CT-AI Exam Dumps have been made under the expert advice of 90,000 highly experienced professionals from around the globe. They assure that anyone who prepares from it will get ISTQB CT-AI certified on the first attempt.

>> CT-AI Exam Introduction <<

## Desktop Practice ISTQB CT-AI Exam Software No Internet Required

Our products are compiled by experts from various industries and they are based on the true problems of the past years and the development trend of the industry. What's more, according to the development of the time, we will send the updated materials of CT-AI test prep to the customers soon if we update the products. Under the guidance of our study materials, you can gain unexpected knowledge. Finally, you will pass the exam and get a CT-AI Certification. Customers can learn according to their actual situation and it is flexible. Next I will introduce the advantages of our CT-AI test prep so that you can enjoy our products.

## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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>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 5	<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 6	<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 7	<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>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q69-Q74):

### NEW QUESTION # 69

The activation value output for a neuron in a neural network is obtained by applying computation to the neuron.

Which ONE of the following options BEST describes the inputs used to compute the activation value?

SELECT ONE OPTION

- A. Individual bias at the neuron level, activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.
- B. Activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.
- C. Individual bias at the neuron level, and weights assigned to the connections between the neurons.
- D. Individual bias at the neuron level, and activation values of neurons in the previous layer.

**Answer: A**

Explanation:

In a neural network, the activation value of a neuron is determined by a combination of inputs from the previous layer, the weights of the connections, and the bias at the neuron level. Here's a detailed breakdown:

\* Inputs for Activation Value:

\* Activation Values of Neurons in the Previous Layer: These are the outputs from neurons in the preceding layer that serve as inputs to the current neuron.

\* Weights Assigned to the Connections: Each connection between neurons has an associated weight, which determines the strength and direction of the input signal.

\* Individual Bias at the Neuron Level: Each neuron has a bias value that adjusts the input sum, allowing the activation function to be shifted.

\* Calculation:

\* The activation value is computed by summing the weighted inputs from the previous layer and adding the bias.

\* Formula:  $z = \sum (w_i \cdot a_i) + b$ , where  $w_i$  are the weights,  $a_i$  are the activation values from the previous layer, and  $b$  is the bias.

\* The activation function (e.g., sigmoid, ReLU) is then applied to this sum to get the final activation value.

\* Why Option A is Correct:

\* Option A correctly identifies all components involved in computing the activation value: the individual bias, the activation values of the previous layer, and the weights of the connections.

\* Eliminating Other Options:

\* B. Activation values of neurons in the previous layer, and weights assigned to the connections between the neurons: This option misses the bias, which is crucial.

\* C. Individual bias at the neuron level, and weights assigned to the connections between the neurons: This option misses the activation values from the previous layer.

\* D. Individual bias at the neuron level, and activation values of neurons in the previous layer

This option misses the weights, which are essential.

References:

ISTQB CT-AI Syllabus, Section 6.1, Neural Networks, discusses the components and functioning of neurons in a neural network.

"Neural Network Activation Functions" (ISTQB CT-AI Syllabus, Section 6.1.1).

### NEW QUESTION # 70

Consider a natural language processing (NLP) algorithm that attempts to predict the next word that you would like to type in a text message. An update to the algorithm has been created that should increase the accuracy of the predictions based on user typing patterns. The old algorithm was rated for accuracy by the users. Then, after the new update was released, the users rated the updated algorithm. A statistical test was used to compare the two versions of the algorithm to see whether or not the update should remain in place.

This is an example of what type of testing?

- **A. A/B testing**
- B. Pairwise testing
- C. Metamorphic testing
- D. Exploratory testing

**Answer: A**

Explanation:

The syllabus states:

"A/B testing can be used to test updates to an AI-based system where there are agreed acceptance criteria, such as ML functional performance metrics, as described in Chapter 5. A/B testing is used to compare the updated variant with the previous variant."  
(Reference: ISTQB CT-AI Syllabus v1.0, Section 9.4, page 68 of 99)

### NEW QUESTION # 71

Arihant Meditation is a startup using AI to aid people in deeper and better meditation based on analysis of various factors such as time and duration of the meditation, pulse and blood pressure, EEG patterns etc. among others. Their model accuracy and other functional performance parameters have not yet reached their desired level.

Which ONE of the following factors is NOT a factor affecting the ML functional performance?

SELECT ONE OPTION

- A. The quality of the labeling
- B. The data pipeline
- **C. The number of classes**
- D. Biased data

**Answer: C**

Explanation:

\* Factors Affecting ML Functional Performance: The data pipeline, quality of the labeling, and biased data are all factors that significantly affect the performance of machine learning models. The number of classes, while relevant for the model structure, is not a direct factor affecting the performance metrics such as accuracy or bias.

\* Reference: ISTQB\_CT-AI\_Syllabus\_v1.0, Sections on Data Quality and its Effect on the ML Model and ML Functional Performance Metrics.

### NEW QUESTION # 72

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

SELECT ONE OPTION

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

**Answer: B**

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.

References:

\* 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 # 73

Which performance metric is BEST suited to assess the quality of trained models detecting fraudulent credit card transactions?  
Choose ONE option (1 out of 4)

- A. Sensitivity
- B. -
- C. F1 value
- D. Accuracy

**Answer: C**

Explanation:

The ISTQB CT-AI syllabus explains in Section 3.2 - Functional Performance Criteria of ML Models that accuracy becomes unreliable when class imbalance exists. In fraud detection, more than 99% of transactions are non-fraudulent, meaning the dataset is extremely imbalanced. Because accuracy counts all correct non-fraudulent classifications, it will appear artificially high, even if the fraud detection performance is poor.

Therefore, accuracy is not suitable for evaluating fraud detection systems.

The syllabus further explains that sensitivity (recall) captures the proportion of correctly identified fraudulent cases. This metric is important, as missing fraudulent events can cause high financial loss. However, the client also stresses that legitimate transactions must be correctly identified, meaning false positives must be minimized to maintain customer satisfaction.

The F1 score, defined as the harmonic mean of precision and recall, balances both:

\* Precision protects legitimate customers by minimizing false alarms.

\* Recall ensures fraudulent transactions are detected.

Section 3.2 emphasizes that when both false positives and false negatives have significant consequences, and the data is highly imbalanced, F1 is the most appropriate metric because it reflects the combined importance of detecting fraud while avoiding unnecessary alerts. Thus, Option C is the correct choice.

### NEW QUESTION # 74

.....

All Exam-Killer CT-AI pdf questions and practice tests are ready for download. Just choose the right Exam-Killer CT-AI practice test questions format that fits your Certified Tester AI Testing Exam CT-AI exam preparation strategy and place the order. After placing CT-AI Exam Questions order you will get your product in your mailbox soon. Get it now and start this wonderful career booster journey.

**Exam CT-AI Score:** <https://www.exam-killer.com/CT-AI-valid-questions.html>

- Test CT-AI Dates ☐ CT-AI Exam Simulator Free ☐ CT-AI Latest Training ☐ The page for free download of ☀ CT-AI ☀ ☐ on ➤ [www.practicevce.com](http://www.practicevce.com) ☐ will open immediately ☐ Test CT-AI Dates
- Latest CT-AI Exam Cram ☐ Actual CT-AI Test Pdf ☐ Latest CT-AI Exam Cram ☐ Simply search for { CT-AI } for free download on ☐ [www.pdfvce.com](http://www.pdfvce.com) ☐ ☐ Test CT-AI Testking
- CT-AI Reliable Exam Pass4sure ☐ ☐ Reliable CT-AI Exam Simulator ☐ CT-AI Certification Exam ☐ Immediately open ➤ [www.troytecdumps.com](http://www.troytecdumps.com) ☐ and search for ✓ CT-AI ☐ ✓ ☐ to obtain a free download ☐ CT-AI Test Pattern
- Valid CT-AI Test Duration ☐ Vce CT-AI Exam ☐ Test CT-AI Dates ☐ Open ➤ [www.pdfvce.com](http://www.pdfvce.com) < and search for 【 CT-AI 】 to download exam materials for free ☐ CT-AI Exam Simulator Free
- CT-AI Exam Papers ☐ Valid CT-AI Test Duration ☐ Exam CT-AI Quizzes ☐ Search for 「 CT-AI 」 and download it for free immediately on { [www.practicevce.com](http://www.practicevce.com) } ☐ Actual CT-AI Test Pdf
- 2026 High-quality ISTQB CT-AI: Certified Tester AI Testing Exam Exam Introduction ☐ Search for ☐ CT-AI ☐ and download it for free immediately on ➡ [www.pdfvce.com](http://www.pdfvce.com) ☐ ☐ CT-AI Reliable Exam Pass4sure
- Quiz 2026 ISTQB CT-AI: Authoritative Certified Tester AI Testing Exam Exam Introduction ☐ Open ⇒ [www.prepawaypdf.com](http://www.prepawaypdf.com) ⇐ enter ➡ CT-AI ☐ and obtain a free download ☐ CT-AI Reliable Exam Pass4sure

- P.S. Free & New CT-AI dumps are available on Google Drive shared by Exam-Killer: <https://drive.google.com/open?id=1RKIBQSMZpBQcH6QIYeNKXC4fG1nimeec>

P.S. Free & New CT-AI dumps are available on Google Drive shared by Exam-Killer: <https://drive.google.com/open?id=1RKIBQSMZpBQcH6QIYeNKXC4fG1nimeec>