

CT-AI Latest Training - Reliable CT-AI Test Forum

Validate Your AI Testing Skills - Take the iSQI CT-AI Exam

ISTQB® Certified Tester - AI Testing (iSQI CT-AI)

People who wish to build more expertise in testing AI-based systems or incorporating AI for testing purposes can acquire the ISTQB® Certified Tester – AI Testing certification. CT-AI increases the breadth of knowledge in artificial intelligence and/or deep (machine) learning, AI system checks, and AI for checking. This qualification is especially useful for testers, test analysts, data analysts, tester engineers, test consultants, tester managers, user acceptance testers, and software developers.

iSQI CT-AI Exam Objectives

The iSQI CT-AI certification aims to improve and validate a basic understanding of testing AI-based systems and/or AI for testing.

Obtaining the iSQI CT-AI Certification

To achieve iSQI CT-AI certification, you must pass the ISTQB® Certified Tester - AI Testing exam. Here are the key details:

- **Exam Format:** The exam comprises 40 multiple-choice questions.
- **Scoring:** The total number of points is 47, with a passing score of at least 65% (31 points).
- **Duration:** The standard exam duration is 60 minutes. Candidates whose native language is not the exam language are allowed an additional 25% time, making it 75 minutes.

iSQI CT-AI Exam Preparation Material

You can prepare for the iSQI CT-AI exam by using Study4Exam Practice Questions. These questions provide clear explanations of relevant content and topics, helping you understand the syllabus thoroughly. If you want to pass the iSQI CT-AI exam, definitely check out these prep resources.

- [iSQI CT-AI Exam Practice Questions](#)
- [Official iSQI CT-AI Exam Guide](#)
- [iSQI CT-AI Exam Registration](#)

iSQI CT-AI Exam Enrollment Criteria

Before taking the ISTQB® Certified Tester - AI Testing test, candidates must hold the ISTQB® Certified Tester – Foundation Level credential.

BTW, DOWNLOAD part of ExamsLabs CT-AI dumps from Cloud Storage: <https://drive.google.com/open?id=1sViZh4Z-HhBlKn2meHUVIR7S2l5RdzSg>

CT-AI practice exam will provide you with wholehearted service throughout your entire learning process. This means that unlike other products, the end of your payment means the end of the entire transaction our ISTQB CT-AI Learning Materials will provide you with perfect services until you have successfully passed the Certified Tester AI Testing Exam CT-AI exam.

ISTQB CT-AI Exam Overview:

Certification Vendor:	ISTQB
Exam Name:	ISTQB Certified Tester AI Testing (CT-AI) Exam
Exam Number:	CT-AI
Real Exam Qty:	40
Exam Duration:	60 minutes
Related Certifications:	ISTQB Certified Tester Foundation Level (CTFL)
Certificate Validity Period:	Lifetime
Available Languages:	English
Exam Format:	Multiple Choice
Passing Score:	65%
Recommended Training:	ISTQB Accredited Training Providers

Exam Registration:	ISTQB Official Website
Sample Questions:	ISTQB CT-AI Sample Questions
Exam Way:	Online and onsite proctored exam via accredited ISTQB examination providers
Pre Condition:	Recommended prior knowledge of ISTQB Foundation Level (CTFL) and basic understanding of software testing concepts and machine learning fundamentals.
Official Syllabus URL:	https://www.istqb.org

>> CT-AI Latest Training <<

Reliable CT-AI Test Forum - Exam CT-AI Vce Format

The ExamsLabs ISTQB CT-AI practice test software is offered in two different types which are Certified Tester AI Testing Exam (CT-AI) desktop practice test software and web-based practice test software. Both are the Prepare for your CT-AI practice exams that will give you a real-time Certified Tester AI Testing Exam (CT-AI) exam environment for quick CT-AI exam preparation. With the CT-AI desktop practice test software and web-based practice test software you can get an idea about the types, structure, and format of real CT-AI exam questions.

ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 2	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.
Topic 3	Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 4	systems from those required for conventional systems.
Topic 5	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.
Topic 6	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.
Topic 7	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.
Topic 8	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.
Topic 9	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.
Topic 10	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.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30

Which ONE of the following tests is MOST likely to describe a useful test to help detect different kinds of biases in ML pipeline?
SELECT ONE OPTION

- A. Testing the data pipeline for any sources for algorithmic bias.
- B. Check the input test data for potential sample bias.
- C. Testing the distribution shift in the training data for inappropriate bias.
- **D. Test the model during model evaluation for data bias.**

Answer: D

Explanation:

Detecting biases in the ML pipeline involves various tests to ensure fairness and accuracy throughout the ML process.

* Testing the distribution shift in the training data for inappropriate bias (A): This involves checking if there is any shift in the data distribution that could lead to bias in the model. It is an important test but not the most direct method for detecting biases.

* Test the model during model evaluation for data bias (B): This is a critical stage where the model is evaluated to detect any biases in the data it was trained on. It directly addresses potential data biases in the model.

* Testing the data pipeline for any sources for algorithmic bias (C): This test is crucial as it helps identify biases that may originate from the data processing and transformation stages within the pipeline. Detecting sources of algorithmic bias ensures that the model does not inherit biases from these processes.

* Check the input test data for potential sample bias (D): While this is an important step, it focuses more on the input data and less on the overall data pipeline.

Hence, the most likely useful test to help detect different kinds of biases in the ML pipeline is B. Test the model during model evaluation for data bias.

References:

* ISTQB CT-AI Syllabus Section 8.3 on Testing for Algorithmic, Sample, and Inappropriate Bias discusses various tests that can be performed to detect biases at different stages of the ML pipeline.

* Sample Exam Questions document, Question #32 highlights the importance of evaluating the model for biases.

NEW QUESTION # 31

Which of the following statements about the structure and function of neural networks is true?
Choose ONE option (1 out of 4)

- A. The input layer of a deep neural network must have at least as many neurons as its output layer
- **B. Training a neural network only changes the values of the weights at the connections between neurons**
- C. A single-layer perceptron is NOT a neural network
- D. The bias of a neuron is determined by the activation values of the neurons in the previous layer

Answer: B

Explanation:

Section 1.7 - Neural Networks of the ISTQB CT-AI syllabus explains that neural networks consist of neurons connected by weighted links. During training, learning occurs by adjusting the weights on these connections.

This is the essence of gradient descent and backpropagation. Option B correctly states this behavior: only the weights are modified, not the activation functions, neuron counts, or architectural structure.

Option A is incorrect because a neuron's bias is not determined by previous activations; it is an independent trainable parameter added to the weighted input sum. Option C is incorrect because the syllabus states that a single-layer perceptron is a valid type of neural network, although limited to linearly separable problems.

Option D is incorrect because no rule requires the number of input neurons to exceed or equal the number of output neurons. Instead, input neurons correspond to the number of features, while output neurons correspond to tasks or classes.

Therefore, Option B precisely reflects the syllabus definition of what changes during neural network training.

NEW QUESTION # 32

Which of the following statements about ML functional performance metrics is correct?
Choose ONE option (1 out of 4)

- A. The silhouette coefficient describes how well the regression model fits the dependent variables.
- B. The receiver operating characteristic curve shows, depending on parameters, how well the model distinguishes between different clusters.

- C. Metrics used to measure clustering include intra-cluster metrics that measure the proximity of a cluster's data points.
- D. The R-squared metric indicates how well the model distinguishes between different classes based on the ROC curve.

Answer: C

Explanation:

The ISTQB CT-AI syllabus explains ML performance metrics in Section 3.2 - Evaluating ML Models.

For clustering, which is an unsupervised learning method, the syllabus lists metrics such as intra-cluster distance, inter-cluster distance, and coherence measures. Intra-cluster metrics evaluate how close data points are within a cluster, which directly corresponds to Option A.

Option B is incorrect because R-squared is a regression metric measuring goodness-of-fit, not classification performance, and has no connection to ROC curves. Option C is wrong because the silhouette coefficient is also a clustering metric, measuring cohesion vs. separation—not regression accuracy. Option D is incorrect because ROC curves evaluate binary or multiclass classification, not clustering.

Thus, Option A is the only accurate statement based on the syllabus.

NEW QUESTION # 33

You have been developing test automation for an e-commerce system. One of the problems you are seeing is that object recognition in the GUI is having frequent failures. You have determined this is because the developers are changing the identifiers when they make code updates.

How could AI help make the automation more reliable?

- A. It could dynamically name the objects, altering the source code, so the object names will match the object names used in the automation.
- B. It could identify the objects multiple ways and then determine the most commonly used and stable identification for each object.
- C. It could generate a model that will anticipate developer changes and pre-alter the test automation code accordingly.
- D. It could modify the automation code to ignore unrecognizable objects to avoid failures.

Answer: B

NEW QUESTION # 34

Which ONE of the following options is a technology used to implement AI?

- A. Reinforcement learning
- B. Autonomy
- C. Genetic algorithms
- D. Classification

Answer: C

Explanation:

The correct answer is A. Genetic algorithms. In the CT-AI syllabus, Chapter 1, Section 1.4 "AI Technologies" lists multiple technologies used to implement AI, including fuzzy logic, search algorithms, reasoning techniques, neural networks, Bayesian models, decision trees, random forest, linear regression, logistic regression, clustering algorithms, genetic algorithms, and support vector machines. The syllabus also states that AI-based systems typically implement one or more of these technologies.

Option B, autonomy, is not an AI implementation technology; it is a quality characteristic describing the ability of a system to work without human oversight or intervention for sustained periods. Option C, classification, is a supervised learning problem type in which inputs are assigned to predefined classes, not itself an implementation technology in the syllabus taxonomy. Option D, reinforcement learning, is a form of machine learning, but the option that directly appears in the AI technology list is genetic algorithms.

References/topics: CT-AI Syllabus Chapter 1, Section 1.4 "AI Technologies"; Chapter 3, Section 3.1 "Forms of ML."

NEW QUESTION # 35

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