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If you are curious or doubtful about the proficiency of our CT-AI preparation quiz, we can explain the painstakingly word we did behind the light. By abstracting most useful content into the CT-AI exam materials, they have helped former customers gain success easily and smoothly. The most important part is that all contents were being sifted with diligent attention. No errors or mistakes will be found within our CT-AI Study Guide.

ISTQB CT-AI Exam Overview:

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

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Reliable CT-AI Test Syllabus - CT-AI Latest Exam Pattern

Are you worrying about how to pass ISTQB CT-AI test? Now don't need to worry about the problem. Exam4Labs that committed to the study of ISTQB CT-AI certification exam for years has a wealth of experience and strong exam dumps to help you effectively

pass your exam. Whether to pass the exam successfully, it consists not in how many materials you have seen, but in if you find the right method. Exam4Labs is the right method which can help you sail through ISTQB CT-AI Certification Exam.

ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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.
Topic 6	• 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.
Topic 7	• 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.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q65-Q70):

NEW QUESTION # 65
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 prediction by the model.
- C. Testing the speed of the training of the model.
- D. Testing the API of the service powered by the ML model.

Answer: C

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 # 66
A team of software testers is attempting to create an AI algorithm to assist in software testing. This particular team has gone through over 40 iterations of testing and cannot afford to spend as much time as it takes to run the full regression test suite. They are hoping to have the algorithm reduce the amount of testing required, thus reducing the time needed for each testing cycle.
How can an AI-based tool be expected to assist in this reduction?

- A. By performing Bayesian analysis to estimate the types of human interactions that are expected to be seen in the system and then selecting those test cases
- B. By using A/B testing to compare the last update with the newest change and compare metrics between the two
- C. By using a clustering method to quantify the relationships between test cases and then assigning each test case to a category
- D. By performing optimization of the data from past iterations to see where the most common defects occurred and select the corresponding test cases

Answer: D

Explanation:
The syllabus mentions that AI can help optimize regression test suites:
"An AI-based tool can perform optimization of the regression test suite by analyzing... the information from previous test results, associated defects, and the latest changes that have been made, such as features which are broken more frequently and which tests exercise code impacted by recent changes." (Reference: ISTQB CT-AI Syllabus v1.0, Section 11.4, page 79 of 99)

NEW QUESTION # 67
Which of the following is correct regarding the layers of a deep neural network?

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

Answer: A

Explanation:
The syllabus clearly explains the structure of a deep neural network (DNN):
"A deep neural network comprises three types of layers. The input layer receives inputs... Between the input and output layers are hidden layers made up of artificial neurons, which are also known as nodes." (Reference: ISTQB CT-AI Syllabus v1.0, Section 6.1, page 45 of 99)

NEW QUESTION # 68
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 distribution shift in the training data for inappropriate bias.
- B. Test the model during model evaluation for data bias.
- C. Testing the data pipeline for any sources for algorithmic bias.
- D. Check the input test data for potential sample bias.

Answer: B

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 isB. 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 # 69
A mobile app start-up company is implementing an AI-based chat assistant for e-commerce customers. In the process of planning the testing, the team realizes that the specifications are insufficient.
Which testing approach should be used to test this system?

- A. Exploratory testing
- B. Equivalence partitioning
- C. State transition testing
- D. Static analysis

Answer: A

Explanation:
The syllabus describes exploratory testing as especially useful when there are poor specifications or test oracle problems: "Exploratory testing is especially useful when there are poor specifications or test oracle problems, which is often the case for AI-based systems." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.6, page 70 of 99)

NEW QUESTION # 70
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