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Certified Tester AI Testing (CT-AI) Syllabus

Version 1.0



International Software Testing Qualifications Board

Provided by

Alliance for Qualification, Artificial Intelligence United,
Chinese Software Testing Qualifications Board,
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ISTQB CT-AI Exam Overview:

Certification Vendor:	ISTQB
Exam Name:	ISTQB Certified Tester AI Testing (CT-AI) Exam
Exam Number:	CT-AI
Related Certifications:	ISTQB Certified Tester Foundation Level (CTFL)
Exam Format:	Multiple Choice
Exam Duration:	60 minutes
Certificate Validity Period:	Lifetime
Available Languages:	English
Passing Score:	65%
Real Exam Qty:	40
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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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	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 3	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 4	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 5	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.
Topic 6	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.

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

NEW QUESTION # 69

Which ONE of the following activities is MOST relevant when addressing the scenario where you have more than the required amount of data available for the training?

SELECT ONE OPTION

- A. Data augmentation
- B. Data labeling
- C. Feature selection
- **D. Data sampling**

Answer: D

Explanation:

A . Feature selection

Feature selection is the process of selecting the most relevant features from the data. While important, it is not directly about handling excess data.

B . Data sampling

Data sampling involves selecting a representative subset of the data for training. When there is more data than needed, sampling can be used to create a manageable dataset that maintains the statistical properties of the full dataset.

C . Data labeling

Data labeling involves annotating data for supervised learning. It is necessary for training models but does not address the issue of having excess data.

D . Data augmentation

Data augmentation is used to increase the size of the training dataset by creating modified versions of existing data. It is useful when there is insufficient data, not when there is excess data.

Therefore, the correct answer is B because data sampling is the most relevant activity when dealing with an excess amount of data for training.

NEW QUESTION # 70

Which of the following is a technique used in machine learning?

- A. Boundary value analysis
- **B. Decision trees**
- C. Equivalence partitioning
- D. Decision tables

Answer: B

Explanation:

Decision trees are a foundational algorithm used in supervised machine learning. The syllabus describes:

"A decision tree is a tree-like ML model whose nodes represent decisions and whose branches represent possible outcomes."

NEW QUESTION # 71

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. Testing the distribution shift in the training data for inappropriate bias.
- C. Check the input test data for potential sample 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 # 72

You have access to the training data that was used to train an AI-based system. You can review this information and use it as a guideline when creating your tests. What type of characteristic is this?

- A. Accessibility
- B. Explorability
- C. Autonomy
- **D. Transparency**

Answer: D

Explanation:

AI-based systems can sometimes behave like black boxes, where the internal decision-making process is unclear. Transparency refers to the ability to inspect and understand the training data, algorithms, and decision-making process of the AI system.

* Transparency ensures that testers and stakeholders can review how an AI system was trained.

* Access to training data is a key factor in transparency because it allows testers to analyze biases, completeness, and representativeness of the dataset.

* Transparency is an essential characteristic of explainable AI (XAI).

* Having access to training data means that testers can investigate how data influences AI behavior.

* Regulatory and ethical AI guidelines emphasize transparency.

* Many AI ethics frameworks, such as GDPR and Trustworthy AI guidelines, recommend transparency to ensure fair and explainable AI decision-making.

* (A) Autonomy#

* Autonomy refers to an AI system's ability to make decisions independently without human intervention. However, having access to training data does not relate to autonomy, which is more about self-learning and decision-making without human control.

* (B) Explorability#

* Explorability refers to the ability to test AI systems interactively to understand their behavior, but it does not directly relate to accessing training data.

* (D) Accessibility#

* Accessibility refers to the ease with which people can use the system, not the ability to inspect the training data.

* Transparency is the ease with which the training data and algorithm used to generate a model can be understood. "Transparency: This is considered to be the ease with which the algorithm and training data used to generate the model can be determined." Why is Option C Correct? Why Other Options are Incorrect? References from ISTQB Certified Tester AI Testing Study Guide Thus, option C is the correct answer, as transparency involves access to training data, allowing testers to understand AI decision-making processes.

NEW QUESTION # 73

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?

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

Answer: B

Explanation:

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).

NEW QUESTION # 74

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