

Free PDF Quiz ISTQB - CT-AI - Valid Flexible Certified Tester AI Testing Exam Learning Mode



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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• systems from those required for conventional systems.
Topic 2	<ul style="list-style-type: none">• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 3	<ul style="list-style-type: none">• 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 4	<ul style="list-style-type: none">• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 5	<ul style="list-style-type: none">• 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 6	<ul style="list-style-type: none"> • 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 7	<ul style="list-style-type: none"> • 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 8	<ul style="list-style-type: none"> • 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 9	<ul style="list-style-type: none"> • 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 10	<ul style="list-style-type: none"> • 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 11	<ul style="list-style-type: none"> • 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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q45-Q50):

NEW QUESTION # 45

Which of the following is a dataset issue that can be resolved using pre-processing?

- A. Numbers stored as strings
- B. Insufficient data
- C. Wanted outliers
- D. Invalid data

Answer: A

Explanation:

The syllabus describes that data pre-processing includes cleaning (e.g., fixing or removing invalid data) and transforming data (e.g., changing data types such as numbers stored as strings).

"Transformation: The format of the given data is changed... converting categorical data into numerical data, changing image formats..."

NEW QUESTION # 46

A beer company is trying to understand how much recognition its logo has in the market. It plans to do that by monitoring images on various social media platforms using a pre-trained neural network for logo detection.

This particular model has been trained by looking for words, as well as matching colors on social media images. The company logo has a big word across the middle with a bold blue and magenta border.

Which associated risk is most likely to occur when using this pre-trained model?

- A. Improper data preparation
- **B. Inherited bias: the model could have inherited unknown defects**
- C. There is no risk, as the model has already been trained
- D. Insufficient function: the model was not trained to check for colors or words

Answer: B

Explanation:

According to the syllabus, pre-trained models often inherit biases and limitations from the data and processes used in their original training, which may not align with the new use case. Specifically, the syllabus states:

"When using a pre-trained model, the training data and process cannot be fully controlled or known by the user of the model. As a result, the model can inherit biases or inaccuracies that were part of its original development and training process." (Reference: ISTQB CT-AI Syllabus v1.0, Section 1.8.3)

NEW QUESTION # 47

A ML engineer is trying to determine the correctness of the new open-source implementation *X", of a supervised regression algorithm implementation. R-Square is one of the functional performance metrics used to determine the quality of the model. Which ONE of the following would be an APPROPRIATE strategy to achieve this goal?

- A. Train various models by changing the order of input features and verify that the R-Square score of these models vary significantly.
- B. Drop 10% of the rows randomly and create another model and compare the R-Square scores of both the models.
- **C. Compare the R-Square score of the model obtained using two different implementations that utilize two different programming languages while using the same algorithm and the same training and testing data.**
- D. Add 10% of the rows randomly and create another model and compare the R-Square scores of both the model.

Answer: C

Explanation:

This approach directly compares the performance of two implementations of the same algorithm.

If both implementations produce similar R-Square scores on the same training and testing data, it suggests that the new implementation "X" is correct.

NEW QUESTION # 48

Which statement describes factors related to test data that make testing AI-based systems difficult?

- A. Using the same implementation for data acquisition by data scientists and testers prevents defect masking
- **B. Creating and managing large amounts of test data can be difficult, especially when it needs to be representative**
- C. The input data must always be the same over time, especially in real-world systems
- D. Artificially generated data requires legal approval and must be sanitized and encrypted

Answer: B

Explanation:

Section 2.2 - Data Preparation and 4.1 - Challenges in Testing AI-Based Systems describe difficulties in obtaining and managing large, representative datasets. AI-based systems require realistic, diverse, and representative data reflecting real-world variations. The syllabus emphasizes that assembling such datasets is time-consuming, resource-intensive, and often constrained by availability, privacy, or domain complexity. Option B directly corresponds to these documented challenges.

NEW QUESTION # 49

Which ONE of the following options represents a technology MOST TYPICALLY used to implement AI?

- A. Procedural programming
- B. Search engines
- **C. Genetic algorithms**
- D. Case control structures

Answer: C

Explanation:

Technology Most Typically Used to Implement AI: Genetic algorithms are a well-known technique used in AI. They are inspired by the process of natural selection and are used to find approximate solutions to optimization and search problems. Unlike search engines, procedural programming, or case control structures, genetic algorithms are specifically designed for evolving solutions and are commonly employed in AI implementations.

NEW QUESTION # 50

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