

CT-AI Prüfungsunterlagen & CT-AI Lernhilfe



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>> CT-AI Prüfungsunterlagen <<

CT-AI Lernhilfe - CT-AI Dumps

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ISTQB CT-AI Prüfungsplan:

Thema	Einzelheiten
Thema 1	systems from those required for conventional systems.
Thema 2	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.
Thema 3	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.
Thema 4	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.

Thema 5	• 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.
Thema 6	• 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.
Thema 7	• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Thema 8	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Thema 9	• 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 CT-AI Prüfungsfragen mit Lösungen (Q100-Q105):

100. Frage

Which characteristic of AI-based systems makes it difficult to ensure they are safe (e.g., not harming humans)?
Choose ONE option (1 out of 4)

- A. Robustness
- **B. Complexity**
- C. Determinism
- D. Interpretability

Antwort: B

Begründung:

The ISTQB CT-AI syllabus lists several characteristics that make it difficult to ensure safety in AI-based systems. Section 2.8 - Safety and AI explicitly names the characteristics that complicate safety assurance:

complexity, non-determinism, probabilistic behavior, self-learning, lack of transparency, and lack of robustness. Among these, complexity is a core challenge because modern AI systems—particularly those using deep learning—have highly non-linear behavior, large numbers of parameters, and intricate interactions that are hard to predict.

Option B (Complexity) directly aligns with the syllabus and is therefore correct.

Option A (Determinism) is the opposite of AI behavior; AI is often non-deterministic, and determinism does not make systems unsafe.

Option C (Interpretability) does impact trust and explainability, but the syllabus positions it as a transparency challenge, not the primary difficulty in ensuring safety. Option D (Robustness) is a desired quality, not a reason safety is hard; a lack of robustness would be a challenge, not robustness itself.

Thus, complexity best reflects the syllabus' explicit safety-related difficulty.

101. Frage

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

Antwort: D

Begründung:

A/B testing is a statistical testing method that compares two different versions of a system to determine which one performs better. In this scenario, the old NLP algorithm was rated for accuracy, and after the update, the new algorithm was also rated by users. A statistical test was performed to compare the two versions, which is the fundamental approach of A/B testing.

A/B testing is commonly used in:

- * User experience testing (e.g., comparing different versions of a website).
- * ML model evaluation (e.g., comparing two AI-based classifiers).
- * Performance assessment (e.g., determining if a new recommendation algorithm is more effective).

This approach allows for data-driven decisions, ensuring that any changes to the system result in meaningful improvements.

* Section 9.4 - A/B Testing states that A/B testing is used to compare updates in AI-based systems to determine if the newer version is better.

Reference from ISTQB Certified Tester AI Testing Study Guide:

102. Frage

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

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

Antwort: D

Begründung:

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."

(Reference: ISTQB CT-AI Syllabus v1.0, Section 3.4)

103. Frage

Which of the following approaches would help overcome testing challenges associated with probabilistic and non-deterministic AI-based systems?

- A. Decompose the system test into multiple data ingestion tests to determine if the AI system is getting precise and accurate input data.
- **B. Run the test several times to generate a statistically valid test result to ensure that an appropriate number of answers are accurate.**
- C. Run the test several times to ensure that the AI always returns the same correct test result.
- D. Decompose the system test into multiple data ingestion tests to determine if the AI system is getting a sufficient volume of input data.

Antwort: B

Begründung:

Probabilistic and non-deterministic AI-based systems do not always produce the same output for identical inputs. This makes traditional testing approaches ineffective. Instead, the best approach is to run tests multiple times and analyze results statistically.

* Statistical Validity: Running tests multiple times ensures that observed results are statistically significant. Instead of relying on a single test run, analyzing multiple iterations helps determine trends, probabilities, and outliers.

* Expected Result Tolerance: AI-based systems may produce different results within an acceptable range. Defining acceptable tolerances (e.g., "result must be within 2% of the optimal value") improves test effectiveness.

* A (Run Several Times for the Same Correct Result): AI systems are often inherently non-deterministic and may not return the exact same result every time. Expecting identical outputs contradicts the nature of these systems.

* B & C (Decomposing Tests into Data Ingestion Tests): While data ingestion quality is important, it does not directly solve the issue of probabilistic test results. Statistical analysis is the key approach.

* ISTQB CT-AI Syllabus (Section 8.4: Challenges Testing Probabilistic and Non-Deterministic AI-Based Systems)

* "For probabilistic systems, running a test multiple times may be necessary to obtain a statistically valid test result."

* "Where a single definitive output is not possible, results should be analyzed statistically rather than relying on individual test cases."

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study

Guide: Conclusion: Since probabilistic AI systems do not always return the same result, the best approach is to run multiple test iterations and validate results statistically. Hence, the correct answer is D.

104. Frage

Which ONE of the following combinations of Training, Validation, Testing data is used during the process of learning/creating the model?

SELECT ONE OPTION

- A. Validation data - test data
- B. Training data - validation data
- C. Training data * test data
- **D. Training data - validation data - test data**

Antwort: D

Begründung:

The process of developing a machine learning model typically involves the use of three types of datasets:

Training Data: This is used to train the model, i.e., to learn the patterns and relationships in the data.

Validation Data: This is used to tune the model's hyperparameters and to prevent overfitting during the training process.

Test Data: This is used to evaluate the final model's performance and to estimate how it will perform on unseen data.

Let's analyze each option:

A . Training data - validation data - test data

This option correctly includes all three types of datasets used in the process of creating and validating a model. The training data is used for learning, validation data for tuning, and test data for final evaluation.

B . Training data - validation data

This option misses the test data, which is crucial for evaluating the model's performance on unseen data after the training and validation phases.

C . Training data - test data

This option misses the validation data, which is important for tuning the model and preventing overfitting during training.

D . Validation data - test data

This option misses the training data, which is essential for the initial learning phase of the model.

Therefore, the correct answer is A because it includes all necessary datasets used during the process of learning and creating the model: training, validation, and test data.

105. Frage

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