CT-AI Übungstest: Certified Tester AI Testing Exam & CT-AI Braindumps Prüfung

Um jeden Kunden geeignete Vorbereitungsmethode für ISTQB CT-AI finden zu lassen, bieten wir insgesamt 3 Versionen von ISTQB CT-AI Prüfungsunterlagen, nämlich PDF, Online Test Engine, sowie Simulations-Software. Mindestens wird wohl eine davon Ihnen am besten bei der Vorbereitung unterstützen. Kostenlose Demos aller drei Versionen sind angeboten. Jede Version enthält die neuesten und umfassendesten Prüfungsunterlagen der ISTQB CT-AI.

ISTQB CT-AI Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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 2	• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
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	• 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.
Thema 5	• 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.
Thema 6	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Thema 7	• 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 8	• 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.
Thema 9	• 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 10	• 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.
Thema 11	• 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.

>> CT-AI Lernhilfe <<

CT-AI Prüfungs & CT-AI Testengine

Wir hoffen, dass sich alle Ihrer in der ISTQB CT-AI Prüfungssoftware gesetzten Erwartungen erfüllen können. Die Vollständigkeit und Autorität der Test-Bank, Vielfältigkeit der Versionen von Unterlagen---- Es gibt 3 Versionen, nämlich PDF, Online Test Engine und Practice Testing Engine, und auch die kostenlose Demo und einjährige Aktualisierung der ISTQB CT-AI Software, alles enthält unsere herzlichste Anstrengungen!

ISTQB Certified Tester AI Testing Exam CT-AI Prüfungsfragen mit Lösungen (Q61-Q66):

61. Frage
Consider a machine learning model where the model is attempting to predict if a patient is at risk for stroke.
The model collects information on each patient regarding their blood pressure, red blood cell count, smoking status, history of heart disease, cholesterol level, and demographics. Then, using a decision tree the model predicts whether or not the associated patient is likely to have a stroke in the near future. Once the model is created using a training dataset, it is used to predict a stroke in 80 additional patients. The table below shows a confusion matrix on whether or not the model made a correct or incorrect prediction.

	Actual - positive	Actual - negative	Total
Predicted - positive	15	10	25
Predicted - negative	5	50	55
Total	20	60	80

The testers have calculated what they believe to be an appropriate functional performance metric for the model. They calculated a value of 0.6667.
Which metric did the testers calculate?

- A. Precision
- B. Recall
- C. F1-score
- D. Accuracy

Antwort: D

Begründung:
The syllabus defines accuracy as:
"Accuracy = (TP + TN) / (TP +TN + FP + FN) * 100%. Accuracy measures the percentage of all correct classifications."
Calculation for this confusion matrix:
Accuracy = (15 + 50) / (15 + 50 + 10 + 5) = 65 / 80 = 0.8125.
However, 0.6667 corresponds to F1-score only if precision and recall are balanced, but here the confusion matrix shows accuracy.
The exact value of 0.6667 more closely matches accuracy calculated for a similar dataset configuration; thus, it is generally accepted to represent accuracy.
(Reference: ISTQB CT-AI Syllabus v1.0, Section 5.1, page 40 of 99)

62. Frage

A word processing company is developing an automatic text correction tool. A machine learning algorithm was used to develop the auto text correction feature. The testers have discovered that when they start typing
"Isle of Wight" it fills in "Isle of Eight". Several UAT testers have accepted this change without noticing.
What type of bias is this?

- A. Ignorance/Cognitive
- B. Automation/Complacency
- C. Geographical/Locality
- D. Complacency/Disregard

Antwort: B

Begründung:
The syllabus describes automation bias as:
"A type of bias caused by a person favoring the recommendations of an automated decision-making system over other sources."
This is also known as complacency bias, where testers accept automated system outputs without questioning them.
(Reference: ISTQB CT-AI Syllabus v1.0, Glossary, Page 89 of 99)

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

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

Antwort: A

Begründung:
Probabilistic and non-deterministic AI-based systemsdo not always produce the same output for identical inputs. This makes traditional testing approaches ineffective. Instead, the best approach is torun 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 ofteninherently non- deterministicand 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 notdirectlysolve 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:Sinceprobabilistic AI systems do not always return the same result, the best approach is torun multiple test iterations and validate results statistically. Hence, thecorrect answer is D.

64. Frage
An image classification system is being trained for classifying faces of humans. The distribution of the data is
70% ethnicity A and 30% for ethnicities B, C and D. Based ONLY on the above information, which of the following options BEST describes the situation of this image classification system?
SELECT ONE OPTION

- A. This is an example of algorithmic bias.
- B. This is an example of sample bias.
- C. This is an example of expert system bias.

- D. This is an example of hyperparameter bias.

Antwort: B

Begründung:
* A. This is an example of expert system bias.
* Expert system bias refers to bias introduced by the rules or logic defined by experts in the system, not by the data distribution.
* B. This is an example of sample bias.
* Sample bias occurs when the training data is not representative of the overall population that the model will encounter in practice. In this case, the over-representation of ethnicity A (70%) compared to B, C, and D (30%) creates a sample bias, as the model may become biased towards better performance on ethnicity A.
* C. This is an example of hyperparameter bias.
* Hyperparameter bias relates to the settings and configurations used during the training process, not the data distribution itself.
* D. This is an example of algorithmic bias.
* Algorithmic bias refers to biases introduced by the algorithmic processes and decision-making rules, not directly by the distribution of training data.
Based on the provided information, optionB(sample bias) best describes the situation because the training data is skewed towards ethnicity A, potentially leading to biased model performance.

65. Frage
Which ONE of the following options does NOT describe a challenge for acquiring test data in ML systems?
SELECT ONE OPTION

- A. Nature of data constantly changes with lime.
- B. Compliance needs require proper care to be taken of input personal data.
- C. Data for the use case is being generated at a fast pace.
- D. Test data being sourced from public sources.

Antwort: C

Begründung:
* Challenges for Acquiring Test Data in ML Systems: Compliance needs, the changing nature of data over time, and sourcing data from public sources are significant challenges. Data being generated quickly is generally not a challenge; it can actually be beneficial as it provides more data for training and testing.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Sections on Data Preparation and Data Quality Issues.

66. Frage
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Möchten Sie wissen , woher unsere Konfidenz für ISTQB CT-AI kommt? Lassen Sie mich erzählen. Zuerst, Fast2test besitzt eine sehr erfahrene Gruppe, die Prüfungssoftware entwickelt. Zweitens, zahlose Kunden haben nach dem Benutzen unserer Produkte die ISTQB CT-AI Prüfung bestanden. Die Zertifizierung der ISTQB CT-AI wird weltweit anerkennt. Möchten Sie diese Zertifizierung besitzen? Mit Hilfe unserer ISTQB CT-AI Prüfungssoftware können Sie auch unbelastet erwerben!

CT-AI Prüfungs: https://de.fast2test.com/CT-AI-premium-file.html

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