

CT-AI Torrent Anleitung - CT-AI Studienführer & CT-AI wirkliche Prüfung



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ISTQB CT-AI Prüfungsplan:

Thema	Einzelheiten
Thema 1	<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.
Thema 2	<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.
Thema 3	<ul style="list-style-type: none"> systems from those required for conventional systems.
Thema 4	<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.
Thema 5	<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
Thema 6	<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.
Thema 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.
Thema 8	<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.

Thema 9	<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.
Thema 10	<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.
Thema 11	<ul style="list-style-type: none"> • 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.

>> CT-AI Lernressourcen <<

CT-AI Certified Tester AI Testing Exam neueste Studie Torrent & CT-AI tatsächliche prep Prüfung

Die Schulungsunterlagen zur ISTQB CT-AI Zertifizierungsprüfung von unserem PrüfungFrage gelten für alle IT-Zertifizierungsprüfungen, ihre Anwendbarkeit kann jeden IT-Bereich erreichen. Die Schulungsunterlagen zur ISTQB CT-AI Zertifizierungsprüfung aus PrüfungFrage werden von den erfahrenen Experten durch ständige Praxis und Forschung bearbeitet, daher ist ihre Autorität zweifellos. Wir werden Ihnen eine volle Rückerstattung bedingungslos geben, entweder die gekauften Produkte Qualitätsproblem haben, oder Sie die ISTQB CT-AI Prüfung nicht bestehen.

ISTQB Certified Tester AI Testing Exam CT-AI Prüfungsfragen mit Lösungen (Q141-Q146):

141. Frage

The activation value output for a neuron in a neural network is obtained by applying computation to the neuron. Which ONE of the following options BEST describes the inputs used to compute the activation value?

- A. Individual bias at the neuron level, and activation values of neurons in the previous layer.
- B. Activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.
- **C. Individual bias at the neuron level, activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.**
- D. Individual bias at the neuron level, and weights assigned to the connections between the neurons.

Antwort: C

Begründung:

Option A correctly identifies all components involved in computing the activation value: the individual bias, the activation values of the previous layer, and the weights of the connections.

142. Frage

How can a tester check the system for bias as part of a review of data sources, acquisition, and preprocessing?

- **A. During the review of the preprocessing, the auditor can uncover whether the data has been influenced in a way that could lead to sample distortions.**
- B. It may use the LIME method as part of its data collection review to detect inappropriate bias.
- C. During the review, it can uncover algorithmic bias by analysing the procedures used to obtain the training data.
- D. As part of the review of preprocessing, it can reveal whether the data has been influenced in a way that could lead to algorithmic bias.

Antwort: A

Begründung:

Bias detection at the data levels performed by reviewing data acquisition and preprocessing steps, as explained in Section 2.3 - Data Quality and Bias of the ISTQB CT-AI syllabus. Sample bias arises when data is distorted or when preprocessing introduces

unintended shifts--for example, by filtering, normalization, or labeling steps that disproportionately affect subsets of the data. Option B correctly reflects this: reviewers can identify whether preprocessing steps have altered the dataset in a way that introduces sample distortions. This aligns perfectly with syllabus guidance on reviewing data pipelines for bias sources.

143. 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. A/B testing
- B. Pairwise testing
- C. Metamorphic testing
- D. Exploratory testing

Antwort: A

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:

144. Frage

Which ONE of the following characteristics is the least likely to cause safety related issues for an AI system?

SELECT ONE OPTION

- A. High complexity
- B. Non-determinism
- C. Robustness
- D. Self-learning

Antwort: C

Begründung:

The question asks which characteristic is least likely to cause safety-related issues for an AI system. Let's evaluate each option:

* Non-determinism (A): Non-deterministic systems can produce different outcomes even with the same inputs, which can lead to unpredictable behavior and potential safety issues.

* Robustness (B): Robustness refers to the ability of the system to handle errors, anomalies, and unexpected inputs gracefully. A robust system is less likely to cause safety issues because it can maintain functionality under varied conditions.

* High complexity (C): High complexity in AI systems can lead to difficulties in understanding, predicting, and managing the system's behavior, which can cause safety-related issues.

* Self-learning (D): Self-learning systems adapt based on new data, which can lead to unexpected changes in behavior. If not properly monitored and controlled, this can result in safety issues.

References:

* ISTQB CT-AI Syllabus Section 2.8 on Safety and AI discusses various factors affecting the safety of AI systems, emphasizing the importance of robustness in maintaining safe operation.

145. Frage

Which of the following aspects is a challenge when handling test data for an AI-based system?

- A. Data frameworks or machine learning frameworks
- **B. Personal data or confidential data**
- C. Video frame speed or aspect ratio
- D. Output data or intermediate data

Antwort: B

Begründung:

The syllabus explicitly mentions challenges of handling personal data and ensuring privacy when testing AI-based systems:

"The management of personal data and sensitive data is often a concern during testing, as testing typically requires realistic data and it is difficult to fully anonymize data." (Reference: ISTQB CT-AI Syllabus v1.0, Section 7.3, page 52 of 99)

146. Frage

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