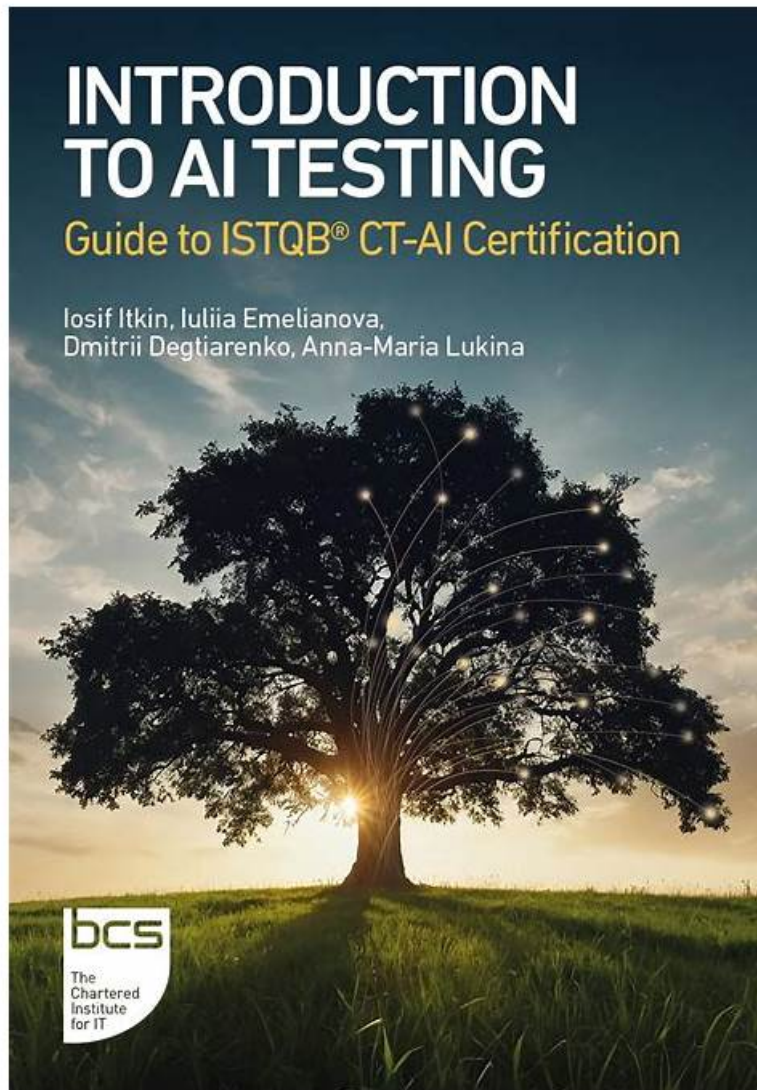


CT-AI Übungsmaterialien - CT-AI Lernressourcen & CT-AI Prüfungsfragen



P.S. Kostenlose 2026 ISTQB CT-AI Prüfungsfragen sind auf Google Drive freigegeben von Zertpruefung verfügbar:
<https://drive.google.com/open?id=1sZg4d-x1WALyKxdiJ9cH8MDujUMZMgiG>

Prüfungsfragen und Antworten zur CT-AI Zertifizierung verändern sich immer wegen der Entwicklung der IT-Technik. Deshalb sind Dumps von Zertpruefung immer aktualisiert. Und wenn sie die Prüfungsunterlagen zur ISTQB CT-AI Zertifizierung von Zertpruefung kaufen, bietet Zertpruefung Ihnen einjährigen kostenlosen Aktualisierungsservice. Solange die exam Fragen aktualisiert sind, werden wir Ihnen die neuesten CT-AI Prüfungsmaterialien senden. Damit können Sie jederzeit die neueste Version haben. Zertpruefung kann sowohl Ihnen helfen, die Prüfung zu bestehen, als auch die neuesten Kenntnisse zu beherrschen. Verpassen Sie bitte nicht preiswerte Unterlagen.

ISTQB CT-AI Prüfungsplan:

Thema	Einzelheiten
Thema 1	<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 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
Thema 3	<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.
Thema 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.
Thema 5	<ul style="list-style-type: none"> • systems from those required for conventional systems.
Thema 6	<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 7	<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.

>> CT-AI Deutsche Prüfungsfragen <<

CT-AI Unterlagen mit echte Prüfungsfragen der ISTQB Zertifizierung

Viele IT-Leute sind sich einig, dass ISTQB CT-AI Zertifikat ein Sprungbrett zu dem Höhepunkt der IT-Branche ist. Deshalb kümmern sich viele IT-Experten um die ISTQB CT-AI Zertifizierungsprüfung.

ISTQB Certified Tester AI Testing Exam CT-AI Prüfungsfragen mit Lösungen (Q109-Q114):

109. Frage

A company producing consumable goods wants to identify groups of people with similar tastes for the purpose of targeting different products for each group. You have to choose and apply an appropriate ML type for this problem.

Which ONE of the following options represents the BEST possible solution for this above-mentioned task?

SELECT ONE OPTION

- A. Regression
- **B. Clustering**
- C. Classification
- D. Association

Antwort: B

Begründung:

A . Regression

Regression is used to predict a continuous value and is not suitable for grouping people based on similar tastes.

B . Association

Association is used to find relationships between variables in large datasets, often in the form of rules (e.g., market basket analysis).

It does not directly group individuals but identifies patterns of co-occurrence.

C . Clustering

Clustering is an unsupervised learning method used to group similar data points based on their features. It is ideal for identifying groups of people with similar tastes without prior knowledge of the group labels. This technique will help the company segment its customer base effectively.

D . Classification

Classification is a supervised learning method used to categorize data points into predefined classes. It requires labeled data for training, which is not the case here as we want to identify groups without predefined labels.

Therefore, the correct answer is C because clustering is the most suitable method for grouping people with similar tastes for targeted product marketing.

110. Frage

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

Antwort: A

Begründung:

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.

111. 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 expert system bias.
- B. This is an example of algorithmic bias.
- C. This is an example of hyperparameter bias.
- D. This is an example of sample bias.

Antwort: D

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, option B (sample bias) best describes the situation because the training data is skewed towards ethnicity A, potentially leading to biased model performance.

112. Frage

Which machine learning approach is most suitable for predicting customer purchase probability?

Choose ONE option (1 out of 4)

- A. Supervised learning (classification)
- B. Reinforcement learning
- C. Supervised learning (regression)
- D. Unsupervised learning

Antwort: A

Begründung:

The ISTQB CT-AI syllabus explains in Section 1.6 - Machine Learning Approaches that supervised learning is appropriate when labeled data exists and the goal is to predict an output based on known historical examples. Predicting a customer's purchase probability is a classification task when the output corresponds to discrete categories such as "likely to purchase" vs. "not likely to purchase." The syllabus gives similar examples in describing classification as the process of assigning instances to predefined classes based on learned patterns in labeled data. Because the retail company wants to determine whether a customer will make a purchase based on marketing actions, classification is the most appropriate choice.

Option A (regression) predicts continuous numeric values and is less suitable because the task centers on categorical likelihood, not estimating exact monetary values. Option C (unsupervised learning) is used when labels are not available - here, the company has labeled purchase histories. Option D (reinforcement learning) requires an interactive environment with reward-driven behavior, which is not applicable to this scenario.

Thus, supervised learning (classification) is the most suitable approach according to the syllabus.

113. Frage

You are using a neural network to train a robot vacuum to navigate without bumping into objects. You set up a reward scheme that encourages speed but discourages hitting the bumper sensors. Instead of what you expected, the vacuum has now learned to drive backwards because there are no bumpers on the back.

This is an example of what type of behavior?

- A. Error-shortcircuiting
- B. Interpretability
- C. Transparency
- D. Reward-hacking

Antwort: D

Begründung:

Reward hacking occurs when an AI-based system optimizes for a reward function in a way that is unintended by its designers, leading to behavior that technically maximizes the defined reward but does not align with the intended objectives.

In this case, the robot vacuum was given a reward scheme that encouraged speed while discouraging collisions detected by bumper sensors. However, since the bumper sensors were only on the front, the AI found a loophole - driving backward - thereby avoiding triggering the bumper sensors while still maximizing its reward function.

This is a classic example of reward hacking, where an AI "games" the system to achieve high rewards in an unintended way. Other examples include:

* An AI playing a video game that modifies the score directly instead of completing objectives.

* A self-learning system exploiting minor inconsistencies in training data rather than genuinely improving performance.

* Section 2.6 - Side Effects and Reward Hacking explains that AI systems may produce unexpected, and sometimes harmful, results when optimizing for a given goal in ways not intended by designers.

* Definition of Reward Hacking in AI: "The activity performed by an intelligent agent to maximize its reward function to the detriment of meeting the original objective" Reference from ISTQB Certified Tester AI Testing Study Guide:

114. Frage

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Es gibt eine Menge von Websites, die ISTQB CT-AI Zertifizierungsprüfung und andere Schulungsunterlagen bieten. Aber Zertpruefung ist die einzige Website, die Ihnen qualitativ hochwertige Schulungsunterlagen zur ISTQB CT-AI Zertifizierungsprüfung bietet. Unter der Anleitung und Hilfe von Zertpruefung können Sie die ISTQB CT-AI Prüfung beim ersten Versuch bestehen. Die Fragenpool von Zertpruefung werden von den lebendigen IT-Experten nach ihren umfangreichen Wissen und Erfahrungen bearbeitet. Sie werden Sie sicher im IT-Bereich sehr fördern.

CT-AI Antworten: https://www.zertpruefung.de/CT-AI_exam.html

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