CT-AI Deutsche Prüfungsfragen, CT-AI Quizfragen Und Antworten

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Wenn Sie einige unserer Prüfungsfrage und Antworten für ISTQB CT-AI Zertifizierungsprüfung versucht haben, dann können Sie eine Wahl darüber treffen, ZertFragen zu kaufen oder nicht. Wir werden Ihnen mit 100% Bequemlichkeit und Garantie bieten. Denken Sie bitte daran, dass nur ZertFragen Ihen zum Bestehen der ISTQB CT-AI Zertifizierungsprüfung verhelfen kann.

ISTQB CT-AI Prüfungsplan:

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

>> CT-AI Deutsche Prüfungsfragen <<

CT-AI Quizfragen Und Antworten, CT-AI Examsfragen

ZertFragen Website ist voll mit Ressourcen und den Fragen der ISTQB CT-AI Prüfung ausgestattet. Es umfasst auch den ISTQB CT-AI Praxis-Test und Prüfungsspeicherung. Sie wird den Kandidaten helfen, sich gut auf die Prüfung vorzubereiten und die Prüfung zu bestehen, was Ihnen viel Angenehmlichkeiten bietet. Sie können die Demo zur ISTQB CT-AI Prüfung teilweise als Probe herunterladen. ZertFragen biett eine echte und umfassende Prüfungsfragen und Antworten. Mit unserer exklusiven Online ISTQB CT-AI Prüfungsschulungsunterlagen werden Sie leicht das ISTQB CT-AI Exam bestehen. Unsere Website gewährleistet Ihnen eine 100%-Pass-Garantie.

ISTQB Certified Tester AI Testing Exam CT-AI Prüfungsfragen mit Lösungen (Q77-Q82):

77. 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.
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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.

78. Frage

In a certain coffee producing region of Colombia, there have been some severe weather storms, resulting in massive losses in production. This caused a massive drop in stock price of coffee.
Which ONE of the following types of testing SHOULD be performed for a machine learning model for stock-price prediction to detect influence of such phenomenon as above on price of coffee stock.
SELECT ONE OPTION

- A. Testing for bias
- B. Testing for accuracy
- C. Testing for concept drift
- D. Testing for security

Antwort: C

Begründung:
* Type of Testing for Stock-Price Prediction Models: Concept drift refers to the change in the statistical properties of the target variable over time. Severe weather storms causing massive losses in coffee production and affecting stock prices would require testing for concept drift to ensure that the model adapts to new patterns in data over time.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Section 7.6 Testing for Concept Drift, which explains the need to test for concept drift in models that might be affected by changing external factors.

79. Frage
A company is using a spam filter to attempt to identify which emails should be marked as spam. Detection rules are created by the filter that causes a message to be classified as spam. An attacker wishes to have all messages internal to the company be classified as spam. So, the attacker sends messages with obvious red flags in the body of the email and modifies the "from" portion of the email to make it appear that the emails have been sent by company members. The testers plan to use exploratory data analysis (EDA) to detect the attack and use this information to prevent future adversarial attacks.
How could EDA be used to detect this attack?

- A. EDA can restrict how many inputs can be provided by unique users
- B. EDA cannot be used to detect the attack
- C. EDA can detect and remove the false emails
- D. EDA can help detect the outlier emails from the real emails

Antwort: D

Begründung:
The syllabus explains that EDA can be used to analyze data to identify outliers and unusual patterns, which can indicate adversarial attacks like data poisoning:
"Testing to detect data poisoning is possible using EDA, as poisoned data may show up as outliers." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.1.2, page 67 of 99)

80. Frage
You are testing an autonomous vehicle which uses AI to determine proper driving actions and responses. You have evaluated the parameters and combinations to be tested and have determined that there are too many to test in the time allowed. It has been suggested that you use pairwise testing to limit the parameters. Given the complexity of the software under test, what is likely the outcome from using pairwise testing?

- A. While the number of tests needed can be reduced, there may still be a large enough set of tests that automation will be required to execute all of them
- B. All high priority defects will be identified using this method
- C. Pairwise cannot be applied to this problem because there is AI involved and the evolving values may result in unexpected results that cannot be verified
- D. The number of parameters to test can be reduced to less than a dozen

Antwort: A

Begründung:
The syllabus states that while pairwise testing is effective at finding defects by reducing the number of test cases needed, the resulting test suite can still be extensive and require automation:

"Even the use of pairwise testing can result in extensive test suites... automation and virtual test environments often become necessary to allow the required tests to be run." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.2, Page 67 of 99)

81. Frage

Which ONE of the following options is the MOST APPROPRIATE stage of the ML workflow to set model and algorithm hyperparameters?
SELECT ONE OPTION

- A. Deploying the model
- B. Evaluating the model
- C. Data testing
- D. Tuning the model

Antwort: D

Begründung:
Setting model and algorithm hyperparameters is an essential step in the machine learning workflow, primarily occurring during the tuning phase.
* Evaluating the model (A): This stage involves assessing the model's performance using metrics and does not typically include the setting of hyperparameters.
* Deploying the model (B): Deployment is the stage where the model is put into production and used in real-world applications. Hyperparameters should already be set before this stage.
* Tuning the model (C): This is the correct stage where hyperparameters are set. Tuning involves adjusting the hyperparameters to optimize the model's performance.
* Data testing (D): Data testing involves ensuring the quality and integrity of the data used for training and testing the model. It does not include setting hyperparameters.
Hence, the most appropriate stage of the ML workflow to set model and algorithm hyperparameters isC.
Tuning the model.
References:
* ISTQB CT-AI Syllabus Section 3.2 on the ML Workflow outlines the different stages of the ML process, including the tuning phase where hyperparameters are set.
* Sample Exam Questions document, Question #31 specifically addresses the stage in the ML workflow where hyperparameters are configured.

82. Frage

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