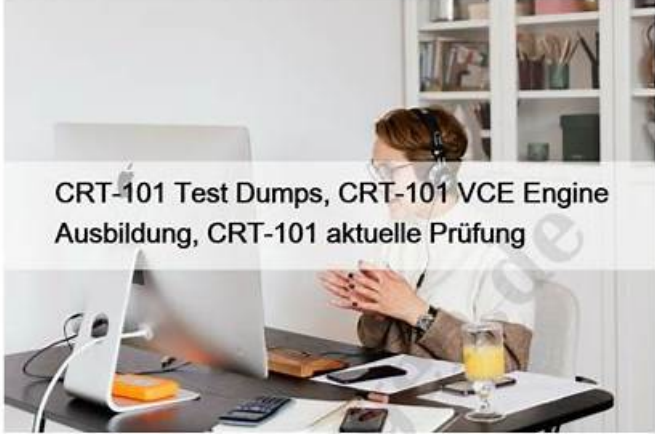


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Salesforce CRT-101 Certification Preparation for Administrator Exam 1



CRT-101 Test Dumps, CRT-101 VCE Engine Ausbildung, CRT-101 aktuelle Prüfung

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Salesforce CRT-101 Prüfungsplan:

Thema	Einzelheiten
Thema 1	- Identify the capabilities and implications of the sales process - Describe capabilities and use cases for the approval process
Thema 2	- Describe the capabilities of the Salesforce Mobile App - Describe the capabilities of lead automation tools and campaign management
Thema 3	- Distinguish between the various UI features that an administrator controls - Describe the capabilities of the Salesforce Communities
Thema 4	- Describe the capabilities of custom report types - Describe the capabilities of case management

>> CRT-101 Prüfungsfrage <<

CRT-101 Prüfungsfragen Prüfungsvorbereitungen, CRT-101

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>> CT-AI Prüfung <<

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ISTQB CT-AI Prüfungsplan:

Thema	Einzelheiten
Thema 1	• 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	• 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	• systems from those required for conventional systems.
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	• 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 6	• 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 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	• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Thema 9	• 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 10	• 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 (Q39-Q44):

39. Frage

Which of the following is correct regarding the layers of a deep neural network?

- A. There is at least one internal hidden layer
- B. There must be a minimum of five total layers to be considered deep
- C. The output layer is not connected with the other layers to maintain integrity
- D. There is only an input and output layer

Antwort: A

Begründung:

A deep neural network (DNN) is a type of artificial neural network that consists of multiple layers between the input and output layers. The ISTQB Certified Tester AI Testing (CT-AI) Syllabus outlines the following characteristics of a DNN:

* Structure of a Deep Neural Network:

* ADNN comprises at least three types of layers:

* Input layer: Receives the input data.

- * Hidden layers: Perform complex feature extraction and transformations.
 - * Output layer: Produces the final prediction or classification.
 - * Analysis of Answer Choices:
 - * A (Only input and output layers)# Incorrect, as a DNN must have at least one hidden layer.
 - * B (At least one internal hidden layer)# Correct, as a neural network must have hidden layers to be considered deep.
 - * C (Minimum of five layers required)# Incorrect, as there is no strict definition that requires at least five layers.
 - * D (Output layer is not connected to other layers)# Incorrect, as the output layer must be connected to the hidden layers.
- Thus, Option B is the correct answer, as a deep neural network must have at least one hidden layer.
- Certified Tester AI Testing Study Guide References:
- * ISTQB CT-AI Syllabus v1.0, Section 6.1 (Neural Networks and Deep Neural Networks)
 - * ISTQB CT-AI Syllabus v1.0, Section 6.2 (Structure of Deep Neural Networks).

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

Antwort: C

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 is C.

Tuning the model.

:

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.

41. Frage

An airline has created a ML model to project fuel requirements for future flights. The model imports weather data such as wind speeds and temperatures, calculates flight routes based on historical routings from air traffic control, and estimates loads from average passenger and baggage weights. The model performed within an acceptable standard for the airline throughout the summer but as winter set in the load weights became less accurate. After some exploratory data analysis it became apparent that luggage weights were higher in the winter than in summer.

Which of the following statements BEST describes the problem and how it could have been prevented?

- A. The model suffers from corruption and therefore should be reloaded into the computer system being used, preferably with a method of version control to prevent further changes.
- B. The model suffers from a lack of transparency and therefore should be regularly tested to ensure that any progressive errors are detected soon enough for the problem to be mitigated.
- **C. The model suffers from drift and therefore should be regularly tested to ensure that any occurrences of drift are detected soon enough for the problem to be mitigated.**
- D. The model suffers from drift and therefore the performance standard should be eased until a new model with more

transparency can be developed.

Antwort: C

Begründung:

The problem described in the question is a classic case of concept drift. Concept drift occurs when the relationship between input variables and the output variable changes over time, leading to a decline in model accuracy.

In this scenario, the average passenger and baggage weights used in the model changed due to seasonal variations, but the model was not updated accordingly. This resulted in inaccurate predictions for fuel requirements in the winter season. This is an example of seasonal drift, where model behavior changes periodically due to recurring trends (e.g., higher luggage weights in winter compared to summer).

To prevent such problems:

- * The model should be regularly tested for concept drift against agreed ML functional performance criteria.
- * Exploratory Data Analysis (EDA) should be performed periodically to detect gradual changes in input distributions.
- * Retraining of the model with updated training data should be done to maintain accuracy.

* If drift is detected, mitigation techniques such as incremental learning, retraining with new data, or adjusting model parameters should be employed.

* Option B (Easing the performance standard instead of addressing drift): Lowering the performance standard is not a solution; it only masks the problem without fixing it. Instead, regular testing and retraining should be used to handle drift properly.

* Option C (Corruption and reloading the model): Model corruption is unrelated to this issue.

Corruption refers to accidental or malicious damage to the model or data, whereas this case is due to a changing data environment.

* Option D (Lack of transparency): Transparency refers to how understandable the model's decisions are, but the problem here is a change in data distributions, making drift the primary concern.

* ISTQB CT-AI Syllabus (Section 7.6: Testing for Concept Drift)

* "The operational environment can change over time without the trained model changing correspondingly. This phenomenon is known as concept drift and typically causes the outputs of the model to become increasingly less accurate and less useful."

* "Systems that may be prone to concept drift should be regularly tested against their agreed ML functional performance criteria to ensure that any occurrences of concept drift are detected soon enough for the problem to be mitigated."

* ISTQB CT-AI Syllabus (Section 7.7: Selecting a Test Approach for an ML System)

* "If concept drift is detected, it may be mitigated by retraining the system with up-to-date training data followed by confirmation testing, regression testing, and possibly A/B testing where the updated system must outperform the original system." Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: Since the question describes a situation where seasonal variations affected input data distributions, the correct answer is A: The model suffers from drift and therefore should be regularly tested to ensure that any occurrences of drift are detected soon enough for the problem to be mitigated.

42. Frage

Which ONE of the following statements correctly describes the importance of flexibility for AI systems?

SELECT ONE OPTION

- A. Self-learning systems are expected to deal with new situations without explicitly having to program for it.
- B. AI systems require changing of operational environments; therefore, flexibility is required.
- **C. Flexible AI systems allow for easier modification of the system as a whole.**
- D. AI systems are inherently flexible.

Antwort: C

Begründung:

Flexibility in AI systems is crucial for various reasons, particularly because it allows for easier modification and adaptation of the system as a whole.

* AI systems are inherently flexible (A): This statement is not correct. While some AI systems may be designed to be flexible, they are not inherently flexible by nature. Flexibility depends on the system's design and implementation.

* AI systems require changing operational environments; therefore, flexibility is required (B):

While it's true that AI systems may need to operate in changing environments, this statement does not directly address the importance of flexibility for the modification of the system.

* Flexible AI systems allow for easier modification of the system as a whole (C): This statement correctly describes the importance of flexibility. Being able to modify AI systems easily is critical for their maintenance, adaptation to new requirements, and improvement.

* Self-learning systems are expected to deal with new situations without explicitly having to program for it (D): This statement relates to the adaptability of self-learning systems rather than their overall flexibility for modification.

Hence, the correct answer is C. Flexible AI systems allow for easier modification of the system as a whole.

:

ISTQB CT-AI Syllabus Section 2.1 on Flexibility and Adaptability discusses the importance of flexibility in AI systems and how it enables easier modification and adaptability to new situations.

Sample Exam Questions document, Question #30 highlights the importance of flexibility in AI systems.

43. Frage

Before deployment of an AI based system, a developer is expected to demonstrate in a test environment how decisions are made. Which of the following characteristics does decision making fall under?

- A. Non-determinism
- **B. Explainability**
- C. Autonomy
- D. Self-learning

Antwort: B

Begründung:

Explainability in AI-based systems refers to the ease with which users can determine how the system reaches a particular result. It is a crucial aspect when demonstrating AI decision-making, as it ensures that decisions made by AI models are transparent, interpretable, and understandable by stakeholders.

Before deploying an AI-based system, a developer must validate how decisions are made in a test environment. This process falls under the characteristic of explainability because it involves clarifying how an AI model arrives at its conclusions, which helps build trust in the system and meet regulatory and ethical requirements.

* ISTQB CT-AI Syllabus (Section 2.7: Transparency, Interpretability, and Explainability)

* "Explainability is considered to be the ease with which users can determine how the AI-based system comes up with a particular result".

* "Most users are presented with AI-based systems as 'black boxes' and have little awareness of how these systems arrive at their results. This ignorance may even apply to the data scientists who built the systems. Occasionally, users may not even be aware they are interacting with an AI-based system".

* ISTQB CT-AI Syllabus (Section 8.6: Testing the Transparency, Interpretability, and Explainability of AI-based Systems)

* "Testing the explainability of AI-based systems involves verifying whether users can understand and validate AI-generated decisions. This ensures that AI systems remain accountable and do not make incomprehensible or biased decisions".

* Contrast with Other Options:

* Autonomy (B): Autonomy relates to an AI system's ability to operate independently without human oversight. While decision-making is a key function of autonomy, the focus here is on demonstrating the reasoning behind decisions, which falls under explainability rather than autonomy.

* Self-learning (C): Self-learning systems adapt based on previous data and experiences, which is different from making decisions understandable to humans.

* Non-determinism (D): AI-based systems are often probabilistic and non-deterministic, meaning they do not always produce the same output for the same input. This can make testing and validation more challenging, but it does not relate to explaining the decision-making process.

Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: Since the question explicitly asks about the characteristic under which decision-making falls when being demonstrated before deployment, explainability is the correct choice because it ensures that AI decisions are transparent, understandable, and accountable to stakeholders.

44. Frage

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