

100% Pass 2026 High Pass-Rate ISTQB CT-AI: Latest Certified Tester AI Testing Exam Exam Notes



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ISTQB CT-AI Exam Syllabus Topics:

| Topic | Details |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <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. |
| Topic 2 | <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. |
| Topic 3 | <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. |
| Topic 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. |
| Topic 5 | <ul style="list-style-type: none">• 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. |

| | |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 6 | <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. |
| Topic 7 | <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 |
| Topic 8 | <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. |

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

A wildlife conservation group would like to use a neural network to classify images of different animals. The algorithm is going to be used on a social media platform to automatically pick out pictures of the chosen animal of the month. This month's animal is set to be a wolf. The test team has already observed that the algorithm could classify a picture of a dog as being a wolf because of the similar characteristics between dogs and wolves. To handle such instances, the team is planning to train the model with additional images of wolves and dogs so that the model is able to better differentiate between the two.

What test method should you use to verify that the model has improved after the additional training?

- A. Metamorphic testing because the application domain is not clearly understood at this point.
- B. Back-to-back testing using the version of the model before training and the new version of the model after being trained with additional images.
- C. Adversarial testing to verify that no incorrect images have been used in the training.
- D. Pairwise testing using combinatorics to look at a long list of photo parameters.

Answer: B

Explanation:

Back-to-back testing is used to compare two different versions of an ML model, which is precisely what is needed in this scenario.

* The model initially misclassified dogs as wolves due to feature similarities.

* The test team retrained the model with additional images of dogs and wolves.

* The best way to verify whether this additional training improved classification accuracy is to compare the original model's output with the newly trained model's output using the same test dataset.

* A (Metamorphic Testing): Metamorphic testing is useful for generating new test cases based on existing ones but does not directly compare different model versions.

* B (Adversarial Testing): Adversarial testing is used to check how robust a model is against maliciously perturbed inputs, not to verify training effectiveness.

* C (Pairwise Testing): Pairwise testing is a combinatorial technique for reducing the number of test cases by focusing on key variable interactions, not for validating model improvements.

* ISTQB CT-AI Syllabus (Section 9.3: Back-to-Back Testing)

* "Back-to-back testing is used when an updated ML model needs to be compared against a previous version to confirm that it performs better or as expected".

* "The results of the newly trained model are compared with those of the prior version to ensure that changes did not negatively impact performance".

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: To verify that the model's performance improved after retraining, back-to-back testing is the most appropriate method as it compares both model versions. Hence, the correct answer is D.

NEW QUESTION # 70

Which of the following is an example of overfitting?

- A. The model is not able to generalize to accommodate new types of data
- B. The model discards data it considers to be noise or outliers
- C. The model is too simplistic for the data
- D. The model is missing relationships between the inputs and outputs

Answer: A

Explanation:

The syllabus defines overfitting as:

"Overfitting is when the ML model learns the training data so well that it is unable to generalize to accommodate new data." This occurs when the model memorizes the training data, including noise, instead of learning the general patterns.

(Reference: ISTQB CT-AI Syllabus v1.0, Section 3.5.1, page 31 of 99)

NEW QUESTION # 71

Which of the following is an example of a clustering problem that can be resolved by unsupervised learning?

- A. Grouping individual fish together based on their types of fins
- B. Associating shoppers with their shopping tendencies
- C. Estimating the expected purchase of cat food after a particularly successful ad campaign
- D. Classifying muffin purchases based on the perceived attractiveness of their packaging

Answer: B

Explanation:

Clustering is a form of unsupervised learning, which groups data points based on similarities without predefined labels. According to ISTQB CT-AI Syllabus, clustering is used in scenarios where:

- * The objective is to find natural groupings in data.
- * The dataset does not have labeled outputs.
- * Patterns and structures need to be identified automatically.

Analyzing the answer choices:

- * A. Associating shoppers with their shopping tendencies # Correct
- * Shoppers can be grouped based on purchasing behaviors (e.g., luxury shoppers vs. budget-conscious shoppers), which is a typical clustering application in market segmentation.
- * B. Grouping individual fish together based on their types of fins # Incorrect
- * If the types of fins are labeled, it becomes a classification problem, which requires supervised learning.
- * C. Classifying muffin purchases based on packaging attractiveness # Incorrect
- * Classification, not clustering, because attractiveness scores or labels must be predefined.
- * D. Estimating the expected purchase of cat food after an ad campaign # Incorrect
- * This is a prediction task, best suited for regression models, which are part of supervised learning.

Thus, Option A is the best answer, as clustering is used to group shoppers based on tendencies without predefined labels.

Certified Tester AI Testing Study Guide References:

- * ISTQB CT-AI Syllabus v1.0, Section 3.1.2 (Unsupervised Learning - Clustering and Association)
- * ISTQB CT-AI Syllabus v1.0, Section 3.3 (Selecting a Form of ML - Clustering).

NEW QUESTION # 72

Which of the following is one of the reasons for data mislabelling?

- A. Lack of domain knowledge
- B. Interoperability error
- C. Expert knowledge
- D. Small datasets

Answer: A

Explanation:

Data mislabeling occurs for several reasons, which can significantly impact the performance of machine learning (ML) models,

especially in supervised learning. According to the ISTQB Certified Tester AI Testing (CT-AI) syllabus, mislabeling of data can be caused by the following factors:

- * Random errors by annotators- Mistakes made due to accidental misclassification.
- * Systemic errors- Errors introduced by incorrect labeling instructions or poor training of annotators.
- * Deliberate errors- Errors introduced intentionally by malicious data annotators.
- * Translation errors- Occur when correctly labeled data in one language is incorrectly translated into another language.
- * Subjectivity in labeling- Some labeling tasks require subjective judgment, leading to inconsistencies between different annotators.
- * Lack of domain knowledge- If annotators do not have sufficient expertise in the domain, they may label data incorrectly due to misunderstanding the context.
- * Complex classification tasks- The more complex the task, the higher the probability of labeling mistakes.

Among the answer choices provided, "Lack of domain knowledge" (Option A) is the best answer because expertise is essential to accurately labeling data in complex domains such as medical, legal, or engineering fields.

Certified Tester AI Testing Study Guide References:

- * ISTQB CT-AI Syllabus v1.0, Section 4.5.2 (Mislabelled Data in Datasets)
- * ISTQB CT-AI Syllabus v1.0, Section 4.3 (Dataset Quality Issues)

NEW QUESTION # 73

Which ONE of the following options describes a scenario of A/B testing the LEAST?

SELECT ONE OPTION

- **A. A comparison of the performance of an ML system on two different input datasets.**
- B. A comparison of the performance of two different ML implementations on the same input data.
- C. A comparison of two different offers in a recommendation system to decide on the more effective offer for same users.
- D. A comparison of two different websites for the same company to observe from a user acceptance perspective.

Answer: A

Explanation:

A/B testing, also known as split testing, is a method used to compare two versions of a product or system to determine which one performs better. It is widely used in web development, marketing, and machine learning to optimize user experiences and model performance. Here's why option C is the least descriptive of an A/B testing scenario:

* Understanding A/B Testing:

* In A/B testing, two versions (A and B) of a system or feature are tested against each other. The objective is to measure which version performs better based on predefined metrics such as user engagement, conversion rates, or other performance indicators.

* Application in Machine Learning:

* In ML systems, A/B testing might involve comparing two different models, algorithms, or system configurations on the same set of data to observe which yields better results.

* Why Option C is the Least Descriptive:

* Option C describes comparing the performance of an ML system on two different input datasets.

This scenario focuses on the input data variation rather than the comparison of system versions or features, which is the essence of A/B testing. A/B testing typically involves a controlled experiment with two versions being tested under the same conditions, not different datasets.

* Clarifying the Other Options:

* A. A comparison of two different websites for the same company to observe from a user acceptance perspective: This is a classic example of A/B testing where two versions of a website are compared.

* B. A comparison of two different offers in a recommendation system to decide on the more effective offer for the same users: This is another example of A/B testing in a recommendation system.

* D. A comparison of the performance of two different ML implementations on the same input data: This fits the A/B testing model where two implementations are compared under the same conditions.

References:

- * ISTQB CT-AI Syllabus, Section 9.4, A/B Testing, explains the methodology and application of A/B testing in various contexts.
- * "Understanding A/B Testing" (ISTQB CT-AI Syllabus).

NEW QUESTION # 74

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