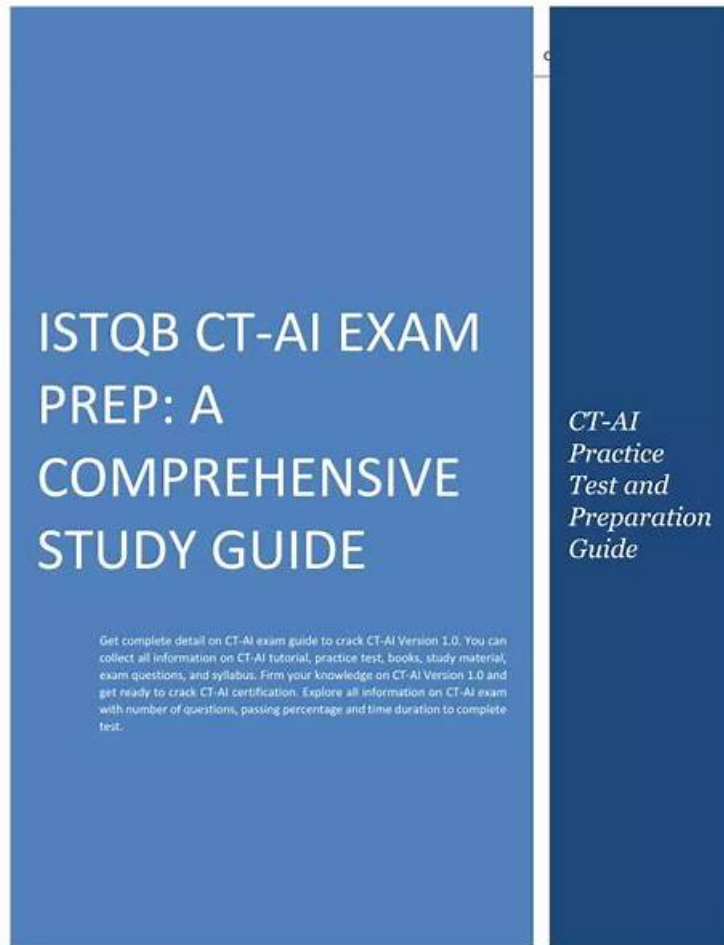


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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 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.

Topic 4	<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 5	<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 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.
Topic 7	<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.
Topic 8	<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.
Topic 9	<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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

Which option describes a reasonable application of AIB testing for a self-learning system after it has changed its behavior due to user input?

Choose ONE option (1 out of 4)

- A. Comparing outputs before and after the change using identical inputs
- B. Comparing outputs before and after the change using different inputs
- C. Generating test cases for the system before and after the change, since neither has a test oracle
- D. Comparing outputs of a non-self-learning system with those of the changed self-learning system

Answer: A

Explanation:

According to Section 4.6 - AI Behaviour Testing (AIB Testing) of the ISTQB CT-AI syllabus, AIB testing is used to evaluate changes in the functional behavior of self-learning systems. The core principle is comparing pre-change and post-change model behavior using the same test inputs, so that any difference in outputs can be attributed to the model's learning and not to differences in input data. This directly corresponds to Option C.

Option A is incorrect because the absence of a test oracle does not justify generating new test cases; AIB relies on reusing identical inputs to detect behavioral drift. Option B is invalid because using different inputs prevents meaningful comparison. Option D is incorrect because comparing with an unrelated non-self-learning system does not allow evaluation of the same model's behavioral evolution.

Thus, Option C accurately represents the correct application of AIB testing: assessing model behavior changes by running identical test inputs before and after learning updates.

NEW QUESTION # 71

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

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

Answer: D

Explanation:

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.

NEW QUESTION # 72

Which of the following is a technique used in machine learning?

- **A. Decision trees**
- B. Boundary value analysis
- C. Equivalence partitioning
- D. Decision tables

Answer: A

Explanation:

Decision trees are a foundational algorithm used in supervised machine learning. The syllabus describes:

"A decision tree is a tree-like ML model whose nodes represent decisions and whose branches represent possible outcomes."

NEW QUESTION # 73

Which ONE of the below is NOT likely to cause a data quality issue affecting a single ML model?

- A. Security issues
- B. Faulty sensors
- C. Hardware issues
- **D. Incorrect weights**

Answer: D

Explanation:

Incorrect weights refer to parameters within a trained model and are not typically considered a data quality issue. Data quality issues usually arise from the input data itself, such as security issues, hardware issues, or faulty sensors, which can lead to incorrect or missing data. Incorrect weights are a problem during the model training or fine-tuning phase, not directly related to data quality.

NEW QUESTION # 74

Which of the following descriptions of quality aspects of a data set is correct?

Choose ONE option (1 out of 4)

- **A. The quality aspect "Incomplete data" describes the fact that data is missing, e.g., for a certain time interval.**

- B. The quality aspect "Data not preprocessed" describes the fact that the collected data was recorded incorrectly.
- C. The quality aspect "Irrelevant data" describes the fact that irrelevant data does not affect the ML model.
- D. The quality aspect "Unbalanced data" describes the fact that the data used should be as up-to-date as possible.

Answer: A

Explanation:

The ISTQB CT-AI syllabus describes several data quality aspects that affect ML performance. In Section 2.2

- Data Preparation, it explains that datasets may suffer from issues such as incomplete data, irrelevant data, incorrect data, unbalanced data, or data lacking preprocessing. "Incomplete data" means that portions of the required data are missing, often because some time periods, records, or sources were not captured. This aligns exactly with Option A, which correctly identifies missing intervals as incomplete data.

Option B is incorrect: "data not preprocessed" refers to data that has not undergone normalization, cleaning, or transformation—not data recorded incorrectly. Option C is wrong because irrelevant data does not negatively affect ML models by introducing noise and unnecessary features. The syllabus explicitly states that including irrelevant features can degrade model learning. Option D is incorrect: "unbalanced data" relates to disproportionate class distribution, not recency or freshness of data.

Thus, Option A is the only statement that correctly matches the syllabus definition of this data quality aspect.

NEW QUESTION # 75

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