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ISTQB Certified Tester AI Testing Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

Which ONE of the following combinations of Training, Validation, Testing data is used during the process of learning/creating the model?

SELECT ONE OPTION

- A. Training data * test data
- **B. Training data - validation data - test data**
- C. Validation data - test data
- D. Training data - validation data

Answer: B

Explanation:

The process of developing a machine learning model typically involves the use of three types of datasets:

Training Data: This is used to train the model, i.e., to learn the patterns and relationships in the data.

Validation Data: This is used to tune the model's hyperparameters and to prevent overfitting during the training process.

Test Data: This is used to evaluate the final model's performance and to estimate how it will perform on unseen data.

Let's analyze each option:

A . Training data - validation data - test data

This option correctly includes all three types of datasets used in the process of creating and validating a model. The training data is used for learning, validation data for tuning, and test data for final evaluation.

B . Training data - validation data

This option misses the test data, which is crucial for evaluating the model's performance on unseen data after the training and validation phases.

C . Training data - test data

This option misses the validation data, which is important for tuning the model and preventing overfitting during training.

D . Validation data - test data

This option misses the training data, which is essential for the initial learning phase of the model.

Therefore, the correct answer is A because it includes all necessary datasets used during the process of learning and creating the model: training, validation, and test data.

NEW QUESTION # 49

Which of the following is a problem with AI-generated test cases that are generated from the requirements?

- **A. They are usually missing the expected results, so verification is difficult or must resort to only detecting significant failures**
- B. They are slow and will usually not be able to execute in the time allowed
- C. They are defect-prone because they are unable to detect nuances in the requirements
- D. They make debugging more complicated because the number of steps is usually high in order to induce the target failure

Answer: A

Explanation:

The syllabus mentions a drawback of AI-generated test cases:

"AI-based test generation tools can generate test cases... However, unless a test model that defines required behaviors is used as the basis of the tests, this form of test generation generally suffers from a test oracle problem because the AI-based tool does not know what the expected results should be." (Reference: ISTQB CT-AI Syllabus v1.0, Section 11.3, page 78 of 99)

NEW QUESTION # 50

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

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

Answer: B

Explanation:

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:

* A DNN 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).

NEW QUESTION # 51

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 "Unbalanced data" describes the fact that the data used should be as up-to-date as possible.
- **B. The quality aspect "Incomplete data" describes the fact that data is missing, e.g., for a certain time interval.**
- C. The quality aspect "Irrelevant data" describes the fact that irrelevant data does not affect the ML model.
- D. The quality aspect "Data not preprocessed" describes the fact that the collected data was recorded incorrectly.

Answer: B

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 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 # 52

A motorcycle engine repair shop owner wants to detect a leaking exhaust valve and fix it before it fails and causes catastrophic damage to the engine. The shop developed and trained a predictive model with historical data files from known healthy engines and ones which experienced a catastrophic failure due to exhaust valve failure. The shop evaluated 200 engines using this model and then disassembled the engines to assess the true state of the valves, recording the results in the confusion matrix below.

What is the precision of this predictive model?

- A. 98.9%
- B. 90.0%
- C. 94.5%
- **D. 94.2%**

Answer: D

Explanation:

Precision is a performance metric used to evaluate the accuracy of positive predictions in a classification model. It is defined by the

formula:

$$\text{Precision} = \frac{TP}{TP + FP} \times 100\%$$
 Where:

* TP (True Positives) = Number of correctly predicted positive cases

* FP (False Positives) = Number of incorrectly predicted positive cases

The confusion matrix provided in the question would typically list these values. Based on ISTQB's guidelines for calculating precision, selecting the correct number of true positives and false positives from the given data should yield 94.2% as the precision.

* Section 5.1 - Confusion Matrix and ML Functional Performance Metrics explains the calculation of precision using the confusion matrix.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 53

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