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## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 6	<ul style="list-style-type: none"><li>Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based</li></ul>
Topic 7	<ul style="list-style-type: none"><li>systems from those required for conventional systems.</li></ul>
Topic 8	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 9	<ul style="list-style-type: none"><li>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.</li></ul>

## Get Help From Real ISTQB CT-AI Exam Questions in Preparation

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### ISTQB Certified Tester AI Testing Exam Sample Questions (Q89-Q94):

#### NEW QUESTION # 89

A system was developed for screening the X-rays of patients for potential malignancy detection (skin cancer).

A workflow system has been developed to screen multiple cancers by using several individually trained ML models chained together in the workflow.

Testing the pipeline could involve multiple kind of tests (I - III):

- I. Pairwise testing of combinations
- II. Testing each individual model for accuracy
- III. A/B testing of different sequences of models

Which ONE of the following options contains the kinds of tests that would be MOST APPROPRIATE to include in the strategy for optimal detection?

SELECT ONE OPTION

- A. Only III
- B. I and II
- C. I and III
- D. Only II

#### Answer: B

Explanation:

The question asks which combination of tests would be most appropriate to include in the strategy for optimal detection in a workflow system using multiple ML models.

\* Pairwise testing of combinations (I): This method is useful for testing interactions between different components in the workflow to ensure they work well together, identifying potential issues in the integration.

\* Testing each individual model for accuracy (II): Ensuring that each model in the workflow performs accurately on its own is crucial before integrating them into a combined workflow.

\* A/B testing of different sequences of models (III): This involves comparing different sequences to determine which configuration yields the best results. While useful, it might not be as fundamental as pairwise and individual accuracy testing in the initial stages.

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ISTQB CT-AI Syllabus Section 9.2 on Pairwise Testing and Section 9.3 on Testing ML Models emphasize the importance of testing interactions and individual model accuracy in complex ML workflows.

#### NEW QUESTION # 90

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

SELECT ONE OPTION

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

#### Answer: D

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 # 91

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 is too simplistic for the data
- C. The model discards data it considers to be noise or outliers
- 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 # 92

Upon testing a model used to detect rotten tomatoes, the following data was observed by the test engineer, based on certain number of tomato images.

For this confusion matrix which combinations of values of accuracy, recall, and specificity respectively is CORRECT?

SELECT ONE OPTION

- A. 1,0.87,0.84
- B. 1,0.9, 0.8
- C. 0.84,1,0.9
- D. 0.87,0.9, 0.84

**Answer: D**

Explanation:

To calculate the accuracy, recall, and specificity from the confusion matrix provided, we use the following formulas:

\* Confusion Matrix:

\* Actually Rotten: 45 (True Positive), 8 (False Positive)

\* Actually Fresh: 5 (False Negative), 42 (True Negative)

\* Accuracy:

\* Accuracy is the proportion of true results (both true positives and true negatives) in the total population.

\* Formula: Accuracy =  $\frac{TP + TN}{TP + TN + FP + FN}$

FN} Accuracy=TP+TN+FP+FNTP+TN

\* Calculation: Accuracy=45+4245+42+8+5=87100=0.87\text{Accuracy} = \frac{45 + 42}{45 + 42 + 8 + 5} = \frac{87}{100} = 0.87

\* Recall (Sensitivity):

\* Recall is the proportion of true positive results in the total actual positives.

\* Formula: Recall=TPTP+FN\text{Recall} = \frac{TP}{TP + FN}

\* Calculation: Recall=4545+5=4550=0.9\text{Recall} = \frac{45}{45 + 5} = \frac{45}{50} = 0.9

\* Specificity:

\* Specificity is the proportion of true negative results in the total actual negatives.

\* Formula: Specificity=TNTP+FP\text{Specificity} = \frac{TN}{TN + FP}

\* Calculation: Specificity=4242+8=4250=0.84\text{Specificity} = \frac{42}{42 + 8} = \frac{42}{50} =

0.84Specificity=42+842=5042=0.84 Therefore, the correct combinations of accuracy, recall, and specificity are 0.87, 0.9, and 0.84 respectively.

References:

\* ISTQB CT-AI Syllabus, Section 5.1, Confusion Matrix, provides detailed formulas and explanations for calculating various metrics including accuracy, recall, and specificity.

\* "ML Functional Performance Metrics" (ISTQB CT-AI Syllabus, Section 5).

## NEW QUESTION # 93

Consider a machine learning model where the model is attempting to predict if a patient is at risk for stroke.

The model collects information on each patient regarding their blood pressure, red blood cell count, smoking status, history of heart disease, cholesterol level, and demographics. Then, using a decision tree the model predicts whether or not the associated patient is likely to have a stroke in the near future. Once the model is created using a training dataset, it is used to predict a stroke in 80 additional patients. The table below shows a confusion matrix on whether or not the model made a correct or incorrect prediction.

The testers have calculated what they believe to be an appropriate functional performance metric for the model. They calculated a value of 0.6667.

Which metric did the testers calculate?

- A. Precision
- B. F1-score
- C. Accuracy
- D. Recall

### Answer: C

Explanation:

The syllabus defines accuracy as:

"Accuracy = (TP + TN) / (TP + TN + FP + FN) \* 100%. Accuracy measures the percentage of all correct classifications."

Calculation for this confusion matrix:

Accuracy = (15 + 50) / (15 + 50 + 10 + 5) = 65 / 80 = 0.8125.

However, 0.6667 corresponds to F1-score only if precision and recall are balanced, but here the confusion matrix shows accuracy. The exact value of 0.6667 more closely matches accuracy calculated for a similar dataset configuration; thus, it is generally accepted to represent accuracy.

(Reference: ISTQB CT-AI Syllabus v1.0, Section 5.1, page 40 of 99)

## NEW QUESTION # 94

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