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## ISTQB CT-AI Valid Exam Forum - CT-AI Examinations Actual Questions

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## ISTQB Certified Tester AI Testing Exam Sample Questions (Q143-Q148):

NEW QUESTION # 143

Which of the below is NOT a characteristic that makes it difficult to use AI-based systems?

- **A. Lack of robustness**
- B. Complexity
- C. Lack of transparency
- D. Lack of standards

**Answer: A**

Explanation:

While AI-based systems can face issues with complexity, lack of standards, and lack of transparency, the lack of robustness is not typically a characteristic that makes AI systems difficult to use. In fact, many AI systems can be designed to be robust, but their complexity, lack of transparency, and the absence of established standards can pose challenges in their implementation and adoption.

#### NEW QUESTION # 144

Which of the following is a dataset issue that can be resolved using pre-processing?

- A. Invalid data
- B. Insufficient data
- **C. Numbers stored as strings**
- D. Wanted outliers

**Answer: C**

Explanation:

The syllabus describes that data pre-processing includes cleaning (e.g., fixing or removing invalid data) and transforming data (e.g., changing data types such as numbers stored as strings).

"Transformation: The format of the given data is changed... converting categorical data into numerical data, changing image formats..."

#### NEW QUESTION # 145

Which ONE of the following describes a situation of back-to-back testing the LEAST?

- **A. Comparison of the results of a neural network ML model with a current decision tree ML model for the same data.**
- B. Comparison of the results of a current neural network model ML model implemented in platform A (for example Pytorch) with a similar neural network model ML model implemented in platform B (for example Tensorflow), for the same data.
- C. Comparison of the results of the current neural network ML model on the current data set with a slightly modified data set.
- D. Comparison of the results of a home-grown neural network model ML model with results in a neural network model implemented in a standard implementation (for example Pytorch) for same data

**Answer: A**

Explanation:

Back-to-back testing is a method where the same set of tests are run on multiple implementations of the system to compare their outputs. This type of testing is typically used to ensure consistency and correctness by comparing the outputs of different implementations under identical conditions.

Let's analyze the options given:

A). Comparison of the results of a current neural network model ML model implemented in platform A (for example Pytorch) with a similar neural network model ML model implemented in platform B (for example Tensorflow), for the same data.

This option describes a scenario where two different implementations of the same type of model are being compared using the same dataset. This is a typical back-to-back testing situation.

B). Comparison of the results of a home-grown neural network model ML model with results in a neural network model implemented in a standard implementation (for example Pytorch) for the same data.

This option involves comparing a custom implementation with a standard implementation, which is also a typical back-to-back testing scenario to validate the custom model against a known benchmark.

C). Comparison of the results of a neural network ML model with a current decision tree ML model for the same data.

This option involves comparing two different types of models (a neural network and a decision tree). This is not a typical scenario for back-to-back testing because the models are inherently different and would not be expected to produce identical results even on the

same data.

D). Comparison of the results of the current neural network ML model on the current data set with a slightly modified data set. This option involves comparing the outputs of the same model on slightly different datasets. This could be seen as a form of robustness testing or sensitivity analysis, but not typical back-to-back testing as it doesn't involve comparing multiple implementations.

Based on this analysis, option C is the one that describes a situation of back-to-back testing the least because it compares two fundamentally different models, which is not the intent of back-to-back testing.

### NEW QUESTION # 146

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.

Confusion Matrix	Actually Rotten	Actually Fresh
Predicted Rotten	45	8
Predicted Fresh	5	42

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

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

**Answer: C**

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

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

\* Recall (Sensitivity):

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

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

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

\* Specificity:

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

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

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

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 # 147

An engine manufacturing facility wants to apply machine learning to detect faulty bolts. Which of the following would result in bias in the model?

- A. Selecting training data by purposely including all known faulty conditions
- **B. Selecting training data purposely excluding specific faulty conditions**
- C. Selecting testing data from a different dataset than the training dataset
- D. Selecting testing data from a boat manufacturer's bolt longevity data

**Answer: B**

Explanation:

The syllabus defines bias as:

"Bias is the systematic difference in treatment of certain objects, people or groups in comparison to others." It also discusses:

"Sample bias can occur if the data used for training the model does not represent the operational environment, or if some relevant faulty conditions are excluded deliberately." (Reference: ISTQB CT-AI Syllabus v1.0, Section 7.6 and 8.3)

## NEW QUESTION # 148

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