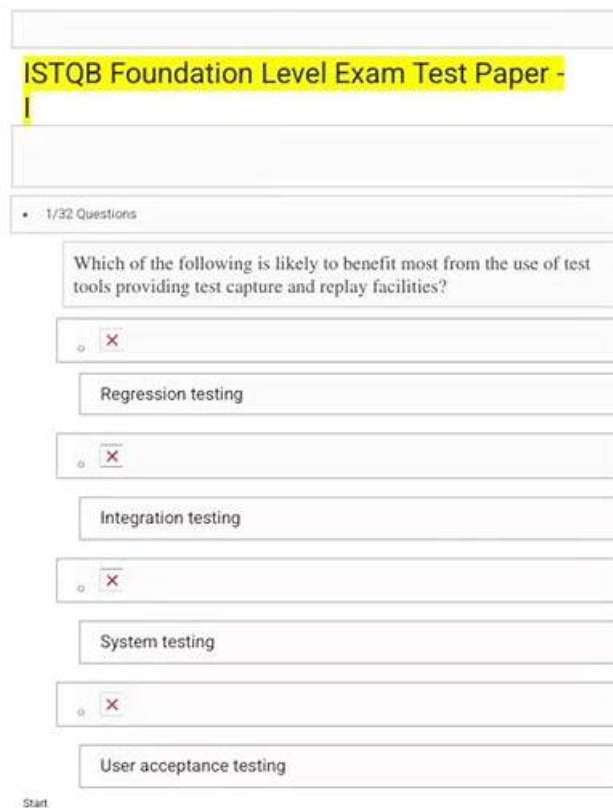


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ISTQB Certified Tester AI Testing Exam Sample Questions (Q121-Q126):

NEW QUESTION # 121

Which option gives the correct values for accuracy and precision from the confusion matrix?

- A. Accuracy = 50%, Precision = 75%
- B. Accuracy = 75%, Precision = 80%
- C. Accuracy = 80%, Precision = 75%
- D. Accuracy = 80%, Precision = 50%

Answer: C

Explanation:

From the confusion matrix:

True Positives (TP) = 15

False Positives (FP) = 5

False Negatives (FN) = 15

True Negatives (TN) = 65

Accuracy = (TP + TN) / Total

= (15 + 65) / 100

= 80%

Precision = TP / (TP + FP)

= 15 / (15 + 5)

= 15 / 20

= 75%

Section 3.2 - Functional Performance Criteria in the syllabus explains accuracy and precision exactly these ways when evaluating ML classification performance.

Option B is therefore the only correct pair of values.

NEW QUESTION # 122

Before deployment of an AI based system, a developer is expected to demonstrate in a test environment how decisions are made.

Which of the following characteristics does decision making fall under?

- A. Self-learning
- B. Autonomy
- C. Explainability
- D. Non-determinism

Answer: C

Explanation:

The syllabus defines explainability as the ability to understand how the AI-based system comes up with a particular result:

"Explainability is considered to be the ease with which users can determine how the AI-based system comes up with a particular result."

NEW QUESTION # 123

Which ONE of the following options describes the LEAST LIKELY usage of AI for detection of GUI changes due to changes in test objects?

SELECT ONE OPTION

- A. Using a pixel comparison of the GUI before and after the change to check the differences.
- B. Using a vision-based detection of the GUI layout changes before and after test object changes.
- C. Using a computer vision to compare the GUI before and after the test object changes.
- D. Using a ML-based classifier to flag if changes in GUI are to be flagged for humans.

Answer: A

Explanation:

* A. Using a pixel comparison of the GUI before and after the change to check the differences.

Pixel comparison is a traditional method and does not involve AI. It compares images at the pixel level, which can be effective but is not an intelligent approach. It is not considered an AI usage and is the least likely usage of AI for detecting GUI changes.

* B. Using computer vision to compare the GUI before and after the test object changes.

Computer vision involves using AI techniques to interpret and process images. It is a likely usage of AI for detecting changes in the GUI.

* C. Using vision-based detection of the GUI layout changes before and after test object changes.

Vision-based detection is another AI technique where the layout and structure of the GUI are analyzed to detect changes. This is a typical application of AI.

* D. Using a ML-based classifier to flag if changes in GUI are to be flagged for humans.

An ML-based classifier can intelligently determine significant changes and decide if they need human review, which is a sophisticated AI application.

NEW QUESTION # 124

A car insurance company is using a new AI service to reward defensive driving behavior among its policyholders. The driving behavior is recorded in a rating number (score).

The AI service determines this score from the following input values:

Reference speed v_{max} in km/h

Average speed v_{mean} in km/h

Average acceleration a_{pos} in m/s^2

Average braking deceleration a_{neg} in m/s^2

The more defensive the driving behavior is (slow driving, low acceleration, low braking deceleration), the higher is the score.

Three initial test cases (Test 1 to Test 3) are used for testing the AI service. In addition, new test cases A-D are proposed.

Which of the new tests is NOT a follow-up test case for metamorphic testing?

Choose ONE option! (1 out of 4)

- A. Test D is not a follow-up test case.
- B. Test A is not a follow-up test case.
- C. Test B is not a follow-up test case.
- D. Test C is not a follow-up test case.

Answer: C

Explanation:

According to the ISTQB CT-AI syllabus, metamorphic testing works by applying metamorphic relations (MRs): predictable input transformations that should lead to predictable output changes. From the initial test data, clear relations emerge for defensive driving scoring. The score increases when:

* v_{mean} decreases,

* a_{pos} decreases,

* a_{neg} becomes less negative, and decreases when the opposite occurs.

A valid metamorphic follow-up test must modify inputs in a direction consistent with at least one MR while keeping the expected output direction predictable.

Test A lowers v_{mean} compared to Test 1, with similar acceleration values. This directly satisfies the MR that lower speed # higher score.

Test C increases both acceleration and braking intensity compared to Test 2, making the reduced score range (30-70) consistent with more aggressive driving.

Test D modifies acceleration and braking magnitudes in ways consistent with Test 3's defensive-driving scoring boundaries.

Test B, however, changes multiple variables in contradictory directions:

* v_{mean} increases (worse)

* a_{pos} increases (worse)

* a_{neg} becomes less negative (better)

Because these changes conflict, the expected score trend becomes unpredictable, violating the premise of a metamorphic follow-up test.

Thus Test B cannot be considered a metamorphic follow-up, which makes Option C correct.

NEW QUESTION # 125

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

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

Answer: A

Explanation:

The syllabus defines clustering as:

"Clustering: This is when the problem requires the identification of similarities in input data points that allows them to be grouped based on common characteristics or attributes. For example, clustering is used to categorize different types of customers for the purpose of marketing." (Reference: ISTQB CT-AI Syllabus v1.0, Section 3.1.2, page 26 of 99)

NEW QUESTION # 126

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