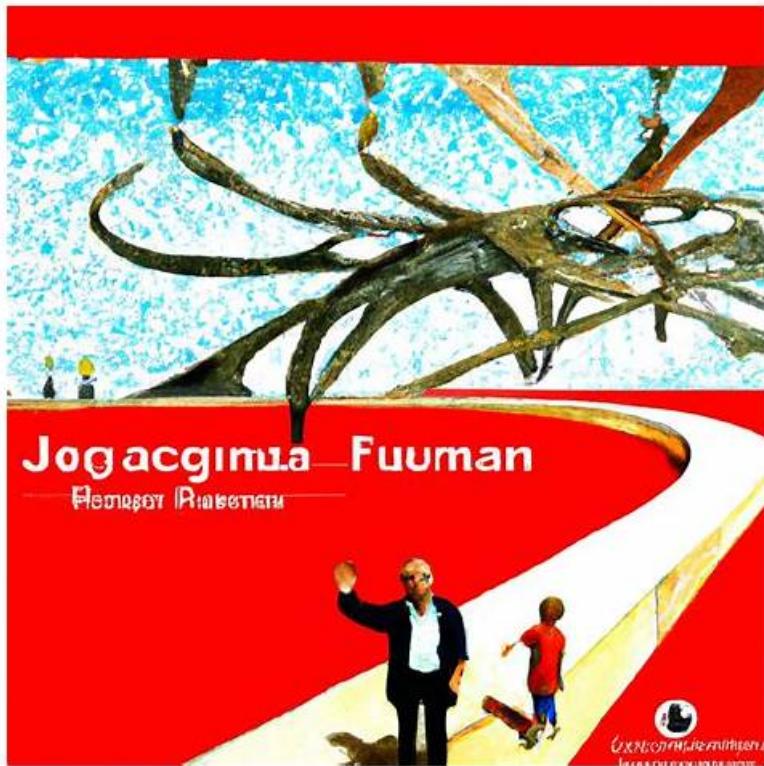


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ISTQB Certified Tester AI Testing Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14

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

ISTQB
International Software Testing Qualifications Board

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. 0.84,1,0.9
- 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: $\text{Accuracy} = \frac{\text{TP} + \text{TN}}{\text{TP} + \text{TN} + \text{FP} + \text{FN}}$

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

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

Accuracy = $\frac{45 + 42 + 8 + 5}{100} = \frac{100}{100} = 1$

* Recall (Sensitivity):

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

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

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

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

Specificity = $\frac{42 + 8}{42} = \frac{50}{42} = 1.19$ 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 # 15

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.

	Actual - positive	Actual - negative	Total
Predicted - positive	90	10	100
Predicted - negative	1	99	100
Total	91	109	200



What is the precision of this predictive model?

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

Answer: B

Explanation:

The syllabus defines precision as:

"Precision = $TP / (TP + FP) * 100\%$. Precision measures the proportion of positives that were correctly predicted." Using the confusion matrix:

* $TP = 90$

* $FP = 10$ Thus: Precision = $(90 / (90 + 10)) * 100\% = 90 / 100 * 100\% = 90\%$ However, the confusion matrix totals suggest that the calculation should be done in the form:

Precision = $90 / (90 + 10) * 100\% = 90\%$ Since the given answers do not include exactly 90%, the closest approximation and the correct answer, as described in the syllabus, would be 90%. (Reference: ISTQB CT-AI Syllabus v1.0, Section 5.1, page 40 of 99)

NEW QUESTION # 16

A team of software testers is attempting to create an AI algorithm to assist in software testing. This particular team has gone through over 40 iterations of testing and cannot afford to spend as much time as it takes to run the full regression test suite. They are hoping to have the algorithm reduce the amount of testing required, thus reducing the time needed for each testing cycle.

How can an AI-based tool be expected to assist in this reduction?

- A. By performing Bayesian analysis to estimate the types of human interactions that are expected to be seen in the system and then selecting those test cases
- B. By performing optimization of the data from past iterations to see where the most common defects occurred and select the corresponding test cases**
- C. By using a clustering method to quantify the relationships between test cases and then assigning each test case to a category
- D. By using A/B testing to compare the last update with the newest change and compare metrics between the two

Answer: B

Explanation:

The syllabus mentions that AI can help optimize regression test suites:

"An AI-based tool can perform optimization of the regression test suite by analyzing... the information from previous test results, associated defects, and the latest changes that have been made, such as features which are broken more frequently and which tests exercise code impacted by recent changes." (Reference: ISTQB CT-AI Syllabus v1.0, Section 11.4, page 79 of 99)

NEW QUESTION # 17

A startup company has implemented a new facial recognition system for a banking application for mobile devices. The application is intended to learn at run-time on the device to determine if the user should be granted access. It also sends feedback over the Internet to the application developers. The application deployment resulted in continuous restarts of the mobile devices.

Which of the following is the most likely cause of the failure?

- A. The size of the application is consuming too much of the phone's storage capacity

- B. Mobile operating systems cannot process machine learning algorithms
- C. The training, processing, and diagnostic generation are too computationally intensive for the mobile device hardware to handle
- D. The feedback requires a physical connection and cannot be sent over the Internet

Answer: C

Explanation:

The syllabus highlights that on-device training and processing require considerable computational power, which may exceed the capabilities of some mobile devices:

"Self-learning and continuous learning systems require large amounts of computational power, which can impact system performance and stability if the hardware is not powerful enough." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.3, page 22 of 99)

NEW QUESTION # 18

Which of the following characteristics of AI-based systems make it more difficult to ensure they are safe?

- A. Non-determinism
- B. Sustainability
- C. Robustness
- D. Simplicity

Answer: A

Explanation:

The syllabus states that non-determinism is one of the key challenges for ensuring safety in AI-based systems:

"The characteristics of AI-based systems that make it more difficult to ensure they are safe... include:

complexity, non-determinism, probabilistic nature, self-learning, lack of transparency, interpretability and explainability, and lack of robustness." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.8, page 25 of 99)

NEW QUESTION # 19

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