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ISTQB Certified Tester AI Testing Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10

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

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 # 11

In a conference on artificial intelligence (AI), a speaker made the statement, "The current implementation of AI using models which do NOT change by themselves is NOT true AI". Based on your understanding of AI, is this above statement CORRECT or INCORRECT and why?

SELECT ONE OPTION

- A. This statement is incorrect. What is considered AI today will continue to be AI even as technology evolves and changes.
- **B. This statement is correct. In general, what is considered AI today may change over time.**
- C. This statement is incorrect. Current AI is true AI and there is no reason to believe that this fact will change over time.
- D. This statement is correct. In general, today the term AI is utilized incorrectly.

Answer: B

Explanation:

* A. This statement is incorrect. Current AI is true AI and there is no reason to believe that this fact will change over time.

AI is an evolving field, and the definition of what constitutes AI can change as technology advances.

* B. This statement is correct. In general, what is considered AI today may change over time.

The term AI is dynamic and has evolved over the years. What is considered AI today might be viewed as standard computing in the future. Historically, as technologies become mainstream, they often cease to be considered "AI".

* C. This statement is incorrect. What is considered AI today will continue to be AI even as technology evolves and changes.

This perspective does not account for the historical evolution of the definition of AI. As new technologies emerge, the boundaries of AI shift.

* D. This statement is correct. In general, today the term AI is utilized incorrectly.

While some may argue this, it is not a universal truth. The term AI encompasses a broad range of technologies and applications, and its usage is generally consistent with current technological capabilities.

NEW QUESTION # 12

A beer company is trying to understand how much recognition its logo has in the market. It plans to do that by monitoring images on various social media platforms using a pre-trained neural network for logo detection.

This particular model has been trained by looking for words, as well as matching colors on social media images. The company logo has a big word across the middle with a bold blue and magenta border.

Which associated risk is most likely to occur when using this pre-trained model?

- A. Insufficient function; the model was not trained to check for colors or words
- **B. Inherited bias; the model could have inherited unknown defects**
- C. Improper data preparation
- D. There is no risk, as the model has already been trained

Answer: B

Explanation:

A major risk when using a pre-trained neural network for logo detection is that it may inherit biases and defects from the original dataset and training process. This means that the model could misidentify or fail to recognize certain logos due to:

* Differences in data preparation: The original training data may have used a different preprocessing method than the new dataset, leading to inconsistencies.

* Limited transparency: The exact details of the dataset and biases within it may not be known, which can cause unexpected behavior.

* Bias in logo detection: If the model was trained on a dataset with certain color or text preferences, it may disproportionately misidentify logos with similar characteristics.

This inherited bias can result in:

* False Positives: Recognizing other brand logos as the beer company's logo.

* False Negatives: Failing to detect the actual logo when variations occur (e.g., different lighting or partial visibility).

* Algorithmic Bias: The model may favor certain shapes or color contrasts due to biased training data.

Thus, the most appropriate risk associated with using this pre-trained model is inherited bias.

* Section 1.8.3 - Risks of Using Pre-Trained Models and Transfer Learning explains how pre-trained models may inherit biases and undocumented defects that affect performance in a new environment.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 13

A software component uses machine learning to recognize the digits from a scan of handwritten numbers. In the scenario above, which type of Machine Learning (ML) is this an example of?

SELECT ONE OPTION

- A. Regression
- **B. Classification**
- C. Reinforcement learning
- D. Clustering

Answer: B

Explanation:

Recognizing digits from a scan of handwritten numbers using machine learning is an example of classification. Here's a breakdown:

* Classification: This type of machine learning involves categorizing input data into predefined classes.

In this scenario, the input data (handwritten digits) are classified into one of the 10 digit classes (0-9).

* Why Not Other Options:

* Reinforcement Learning: This involves learning by interacting with an environment to achieve a goal, which does not fit the problem of recognizing digits.

* Regression: This is used for predicting continuous values, not discrete categories like digit recognition.

* Clustering: This involves grouping similar data points together without predefined classes, which is not the case here.

References: The explanation is based on the definitions of different machine learning types as outlined in the ISTQB CT-AI syllabus, specifically under supervised learning and classification.

NEW QUESTION # 14

A wildlife conservation group would like to use a neural network to classify images of different animals. The algorithm is going to be used on a social media platform to automatically pick out pictures of the chosen animal of the month. This month's animal is set to be a wolf. The test team has already observed that the algorithm could classify a picture of a dog as being a wolf because of the similar characteristics between dogs and wolves. To handle such instances, the team is planning to train the model with additional images of wolves and dogs so that the model is able to better differentiate between the two.

What test method should you use to verify that the model has improved after the additional training?

- A. Adversarial testing to verify that no incorrect images have been used in the training
- B. Pairwise testing using combinatorics to look at a long list of photo parameters
- C. Metamorphic testing because the application domain is not clearly understood at this point
- **D. Back-to-back testing using the version of the model before training and the new version of the model after being trained with additional images**

Answer: D

Explanation:

The syllabus defines back-to-back testing as a method to compare a modified AI system to the previous version, which is ideal in this scenario:

"Back-to-back testing is performed by comparing the outputs of two systems that are supposed to provide the same outputs, one being a known and trusted system and the other being the test system. This approach can be used to test ML systems after re-training to verify that improvements have not introduced regressions." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.3, page 67 of 99)

NEW QUESTION # 15

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