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### ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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>
Topic 6	<ul style="list-style-type: none"> <li>ML: Data: This section of the exam covers explaining the activities and challenges related to data preparation. It also covers how to test datasets create an ML model and recognize how poor data quality can cause problems with the resultant ML model.</li> </ul>
Topic 7	<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>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q79-Q84):

### NEW QUESTION # 79

A word processing company is developing an automatic text correction tool. A machine learning algorithm was used to develop the auto text correction feature. The testers have discovered when they start typing "Isle of Wight" it fills in "Isle of Eight". Several UAT testers have accepted this change without noticing. What type of bias is this?

- A. Complacency/Disregard
- B. Geographical/Locality
- C. Ignorance/Cognitive
- D. Automation/Complacency

**Answer: D**

Explanation:

The syllabus describes automation bias as:

"A type of bias caused by a person favoring the recommendations of an automated decision- making system over other sources."

This is also known as complacency bias, where testers accept automated system outputs without questioning them.

### NEW QUESTION # 80

An image classification system is being trained for classifying faces of humans. The distribution of the data is 70% ethnicity A and 30% for ethnicities B, C and D. Based ONLY on the above information, which of the following options BEST describes the situation of this image classification system?

SELECT ONE OPTION

- A. This is an example of algorithmic bias.
- B. This is an example of hyperparameter bias.
- C. This is an example of sample bias.
- D. This is an example of expert system bias.

**Answer: C**

Explanation:

A . This is an example of expert system bias.

Expert system bias refers to bias introduced by the rules or logic defined by experts in the system, not by the data distribution.

B . This is an example of sample bias.

Sample bias occurs when the training data is not representative of the overall population that the model will encounter in practice. In this case, the over-representation of ethnicity A (70%) compared to B, C, and D (30%) creates a sample bias, as the model may become biased towards better performance on ethnicity A.

C . This is an example of hyperparameter bias.

Hyperparameter bias relates to the settings and configurations used during the training process, not the data distribution itself.

D . This is an example of algorithmic bias.

Algorithmic bias refers to biases introduced by the algorithmic processes and decision-making rules, not directly by the distribution of training data.

Based on the provided information, option B (sample bias) best describes the situation because the training data is skewed towards

ethnicity A, potentially leading to biased model performance.

### NEW QUESTION # 81

Which of the following decisions is BEST as a test approach for the described situation?

Choose ONE option (1 out of 4)

- **A. You plan experience-based testing by the entire team at the system test level to ensure that the end users are satisfied.**
- B. You plan to manually execute regular regression tests of the new camera function, particularly for system tests.
- C. You execute the test cases from the old camera model at the integration test level; no further dynamic tests of the operating data pipeline are necessary.
- D. You plan to perform reviews and exploratory data analysis of the image data sets to reduce the risk of a lack of representativeness of this data.

**Answer: A**

Explanation:

The ISTQB CT-AI syllabus emphasizes that testing AI-based systems requires cross-functional collaboration and experience-based testing when parts of the team lack domain knowledge. In this scenario, the ML expert understands ML and dataset preparation but lacks knowledge of camera system behavior, the device's operational data pipeline, and end-user workflows. The remainder of the team understands the domain and system testing but not ML. Section 4.4 - Human Factors and AI Testing and 4.3 - System Testing of AI Components highlight that when domain understanding is unevenly distributed, experience-based testing conducted by the full team (testers, developers, domain experts) is the most effective approach. This ensures that AI outputs align with actual user expectations and system behavior. Option C aligns exactly with this principle.

Option A is too limited and does not address the need to validate ML integration. Option B is incorrect because reusing old test cases overlooks AI-specific risks in the operating data pipeline. Option D is useful but focuses only on data representativeness, not system-level user validation. Therefore, Option C is the best, syllabus-aligned test approach.

### NEW QUESTION # 82

"Splendid Healthcare" has started developing a cancer detection system based on ML. The type of cancer they plan on detecting has a 2% prevalence rate in the population of a particular geography. It is required that the model performs well for both normal and cancer patients. Which ONE of the following combinations requires MAXIMIZATION?

- **A. Maximize recall and precision**
- B. Maximize precision and accuracy
- C. Maximize specificity number of classes
- D. Maximize accuracy and recall

**Answer: A**

Explanation:

Prevalence Rate and Model Performance:

The cancer detection system being developed by "Splendid Healthcare" needs to account for the fact that the type of cancer has a 2% prevalence rate in the population. This indicates that the dataset is highly imbalanced with far fewer positive (cancer) cases compared to negative (normal) cases.

Importance of Recall:

Recall, also known as sensitivity or true positive rate, measures the proportion of actual positive cases that are correctly identified by the model. In medical diagnosis, especially cancer detection, recall is critical because missing a positive case (false negative) could have severe consequences for the patient. Therefore, maximizing recall ensures that most, if not all, cancer cases are detected.

Importance of Precision:

Precision measures the proportion of predicted positive cases that are actually positive. High precision reduces the number of false positives, meaning fewer people will be incorrectly diagnosed with cancer. This is also important to avoid unnecessary anxiety and further invasive testing for those who do not have the disease.

Balancing Recall and Precision:

In scenarios where both false negatives and false positives have significant consequences, it is crucial to balance recall and precision. This balance ensures that the model is not only good at detecting positive cases but also accurate in its predictions, reducing both types of errors.

Accuracy and Specificity:

While accuracy (the proportion of total correct predictions) is important, it can be misleading in imbalanced datasets. In this case, high accuracy could simply result from the model predicting the majority class (normal) correctly. Specificity (true negative rate) is

also important, but for a cancer detection system, recall and precision take precedence to ensure positive cases are correctly and accurately identified.

Conclusion:

Therefore, for a cancer detection system with a low prevalence rate, maximizing both recall and precision is crucial to ensure effective and accurate detection of cancer cases.

### NEW QUESTION # 83

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 using a clustering method to quantify the relationships between test cases and then assigning each test case to a category
- **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/B testing to compare the last update with the newest change and compare metrics between the two
- D. 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

**Answer: B**

Explanation:












AI-based tools can significantly optimize regression test suites by analyzing historical data, past test results, associated defects, and changes made to the software. These tools prioritize and select the most relevant test cases based on previous defect patterns and frequently failing features, which helps in reducing the test execution time while maintaining effectiveness.

### NEW QUESTION # 84

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