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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 4	<ul style="list-style-type: none">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.
Topic 5	<ul style="list-style-type: none">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.

Topic 6	<ul style="list-style-type: none"> • Testing AI-Specific Quality Characteristics: In this section, the topics covered are about the challenges in testing created by the self-learning of AI-based systems.
Topic 7	<ul style="list-style-type: none"> • 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.
Topic 8	<ul style="list-style-type: none"> • 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.
Topic 9	<ul style="list-style-type: none"> • Testing AI-Based Systems Overview: In this section, focus is given to how system specifications for AI-based systems can create challenges in testing and explain automation bias and how this affects testing.
Topic 10	<ul style="list-style-type: none"> • systems from those required for conventional systems.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q57-Q62):

NEW QUESTION # 57

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 feedback requires a physical connection and cannot be sent over the Internet.
- **B. The training, processing, and diagnostic generation are too computationally intensive for the mobile device hardware to handle.**
- C. Mobile operating systems cannot process machine learning algorithms.
- D. The size of the application is consuming too much of the phone's storage capacity.

Answer: B

Explanation:

Facial recognition applications involve complex computational tasks, including:

- * Feature Extraction- Identifying unique facial landmarks.
- * Model Training and Updates- Continuous learning and adaptation of user data.
- * Image Processing- Handling real-time image recognition under various lighting and angles.

In this scenario, the mobile device is experiencing continuous restarts, which suggests a resource overload caused by excessive processing demands.

- * Mobile devices have limited computational power.
- * Unlike servers, mobile devices lack powerful GPUs/TPUs required for deep learning models.
- * On-device learning is computationally expensive.
- * The model is likely performing real-time learning, which can overwhelm the CPU and RAM.
- * Continuous feedback transmission may cause overheating.
- * If the system is running multiple processes-training, inference, and network communication-it can overload system resources and cause crashes.
- * (A) The feedback requires a physical connection and cannot be sent over the Internet. # (Incorrect)
- * Feedback transmission over the internet is common for cloud-based AI services. This is not the cause of the issue.
- * (B) Mobile operating systems cannot process machine learning algorithms. # (Incorrect)
- * Many mobile applications use ML models efficiently. The problem here is the high computational intensity, not the OS's ability to run ML algorithms.
- * (C) The size of the application is consuming too much of the phone's storage capacity. # (Incorrect)
- * Storage issues typically result in installation failures or lag, not device restarts. The issue here is processing overload, not storage space.
- * AI-based applications require significant computational power. "The computational intensity of AI-based applications can pose a challenge when deployed on resource-limited devices."
- * Edge devices may struggle with processing complex ML workloads. "Deploying AI models on mobile or edge devices requires optimization, as these devices have limited processing capabilities compared to cloud environments." Why is Option D Correct? Why Other Options are Incorrect? References from ISTQB Certified Tester AI Testing Study Guide Thus, option D is the correct answer,

as the computational demands of the facial recognition system are too high for the mobile hardware to handle, causing continuous restarts.

NEW QUESTION # 58

Which of the following neural network coverage criteria can be adapted for its application?

Choose ONE option (1 out of 4)

- A. Sign-Sign coverage
- **B. Threshold coverage**
- C. Sign-Change coverage
- D. Neuron coverage

Answer: B

Explanation:

Section 4.2 - Test Coverage Criteria for AI Models of the ISTQB CT-AI syllabus describes neural network- specific coverage methods. Among the techniques, threshold coverage is explicitly noted as adaptable, meaning testers may choose different thresholds to determine whether neuron activation is considered

"covered." This flexibility makes threshold coverage adjustable to the model architecture, problem domain, and required test thoroughness.

Options A and B (Sign-Sign and Sign-Change coverage) are more rigid structural criteria and are not described as adaptable within the syllabus. They focus on sign patterns of neuron activations and do not allow altering thresholds. Option D, neuron coverage, measures the proportion of neurons activated at least once.

Although simple, it is not defined as an adaptable criterion. Its limitations are documented: it provides shallow insight and too easily achieves high coverage.

Only threshold coverage allows testers to adjust activation thresholds for more refined coverage measurement, making Option C the correct choice.

NEW QUESTION # 59

Which of the following is one of the reasons for data mislabelling?

- **A. Lack of domain knowledge**
- B. Expert knowledge
- C. Small datasets
- D. Interoperability error

Answer: A

Explanation:

Data mislabeling occurs for several reasons, which can significantly impact the performance of machine learning (ML) models, especially in supervised learning. According to the ISTQB Certified Tester AI Testing (CT-AI) syllabus, mislabeling of data can be caused by the following factors:

* Random errors by annotators- Mistakes made due to accidental misclassification.

* Systemic errors- Errors introduced by incorrect labeling instructions or poor training of annotators.

* Deliberate errors- Errors introduced intentionally by malicious data annotators.

* Translation errors- Occur when correctly labeled data in one language is incorrectly translated into another language.

* Subjectivity in labeling- Some labeling tasks require subjective judgment, leading to inconsistencies between different annotators.

* Lack of domain knowledge- If annotators do not have sufficient expertise in the domain, they may label data incorrectly due to misunderstanding the context.

* Complex classification tasks- The more complex the task, the higher the probability of labeling mistakes.

Among the answer choices provided, "Lack of domain knowledge" (Option A) is the best answer because expertise is essential to accurately labeling data in complex domains such as medical, legal, or engineering fields.

Certified Tester AI Testing Study Guide References:

* ISTQB CT-AI Syllabus v1.0, Section 4.5.2 (Mislabelled Data in Datasets)

* ISTQB CT-AI Syllabus v1.0, Section 4.3 (Dataset Quality Issues)

NEW QUESTION # 60

A system was developed for screening the X-rays of patients for potential malignancy detection (skin cancer).

A workflow system has been developed to screen multiple cancers by using several individually trained ML models chained together in the workflow.

Testing the pipeline could involve multiple kind of tests (I - III):

I. Pairwise testing of combinations

II. Testing each individual model for accuracy

III. A/B testing of different sequences of models

Which ONE of the following options contains the kinds of tests that would be MOST APPROPRIATE to include in the strategy for optimal detection?

SELECT ONE OPTION

- A. I and III
- B. Only III
- C. Only II
- **D. I and II**

Answer: D

Explanation:

The question asks which combination of tests would be most appropriate to include in the strategy for optimal detection in a workflow system using multiple ML models.

* Pairwise testing of combinations (I): This method is useful for testing interactions between different components in the workflow to ensure they work well together, identifying potential issues in the integration.

* Testing each individual model for accuracy (II): Ensuring that each model in the workflow performs accurately on its own is crucial before integrating them into a combined workflow.

* A/B testing of different sequences of models (III): This involves comparing different sequences to determine which configuration yields the best results. While useful, it might not be as fundamental as pairwise and individual accuracy testing in the initial stages.

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ISTQB CT-AI Syllabus Section 9.2 on Pairwise Testing and Section 9.3 on Testing ML Models emphasize the importance of testing interactions and individual model accuracy in complex ML workflows.

NEW QUESTION # 61

"Splendid Healthcare" has started developing a cancer detection system based on ML. The type of cancer they plan on detecting has 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?

SELECT ONE OPTION

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

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.

This explanation aligns with the principles outlined in the ISTQB CT-AI Syllabus, particularly sections on performance metrics for ML models and handling imbalanced datasets (Chapter 5: ML Functional Performance Metrics).

NEW QUESTION # 62

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