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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<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 6	<ul style="list-style-type: none"> Quality Characteristics for AI-Based Systems: This section covers topics covered how to explain the importance of flexibility and adaptability as characteristics of AI-based systems and describes the vitality of managing evolution for AI-based systems. It also covers how to recall the characteristics that make it difficult to use AI-based systems in safety-related applications.
Topic 7	<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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q37-Q42):

NEW QUESTION # 37

Which ONE of the following characteristics is the least likely to cause safety related issues for an AI system?

- A. Robustness
- B. Self-learning
- C. High complexity
- D. Non-determinism

Answer: A

Explanation:

Robustness refers to the ability of the system to handle errors, anomalies, and unexpected inputs gracefully. A robust system is less likely to cause safety issues because it can maintain functionality under varied conditions.

NEW QUESTION # 38

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. Only III
- B. I and 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.

References:

* 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 # 39

Which two test procedures are BEST suited for CleverPropose system testing?

- A. Adversarial testing
- B. Pairwise testing
- C. Exploratory data analysis
- **D. Back-to-back testing**
- **E. Metamorphic testing**

Answer: D,E

Explanation:

The ISTQB CT-AI syllabus explains that AI-based decision-support systems benefit strongly from back-to-back testing and metamorphic testing when oracle problems exist or when limited regression tests are available. In this scenario, CleverPropose replaces an older advisory system. Back-to-back testing (Option A) is ideal because the outputs of the existing conventional system can serve as a reference, enabling comparison against the new AI system. This is exactly what the syllabus recommends when AI is replacing a traditional deterministic system.

Metamorphic testing (Option C) is also appropriate, as stated in Section 4.6 - Metamorphic Relations. With limited regression tests and complex decision logic, testers can define metamorphic relations such as "if customer income increases, risk rating should not worsen." These relations allow validation even when exact expected outputs are unavailable.

NEW QUESTION # 40

Which ONE of the following activities is MOST relevant when addressing the scenario where you have more than the required amount of data available for the training?

SELECT ONE OPTION

- A. Feature selection
- B. Data augmentation
- C. Data labeling
- **D. Data sampling**

Answer: D

Explanation:

A . Feature selection

Feature selection is the process of selecting the most relevant features from the data. While important, it is not directly about handling excess data.

B . Data sampling

Data sampling involves selecting a representative subset of the data for training. When there is more data than needed, sampling can be used to create a manageable dataset that maintains the statistical properties of the full dataset.

C . Data labeling

Data labeling involves annotating data for supervised learning. It is necessary for training models but does not address the issue of having excess data.

D . Data augmentation

Data augmentation is used to increase the size of the training dataset by creating modified versions of existing data. It is useful when there is insufficient data, not when there is excess data.

Therefore, the correct answer is B because data sampling is the most relevant activity when dealing with an excess amount of data for training.

NEW QUESTION # 41

The stakeholders of a machine learning model have confirmed that they understand the objective and purpose of the model, and ensured that the proposed model aligns with their business priorities. They have also selected a framework and a machine learning model that they will be using.

What should be the next step to progress along the machine learning workflow?

- A. Agree on defined acceptance criteria for the machine learning model
- **B. Tune the machine learning algorithm based on objectives and business priorities**
- C. Prepare and pre-process the data that will be used to train and test the model
- D. Evaluate the selection of the framework and the model

Answer: B

Explanation:

The machine learning (ML) workflow follows a structured sequence of steps. Once stakeholders have agreed on the objectives, business priorities, and the framework/model selection, the next logical step is to prepare and pre-process the data before training the model.

* Data Preparation is crucial because machine learning models rely heavily on the quality of input data. Poor data can result in biased, inaccurate, or unreliable models.

* The process involves data acquisition, cleaning, transformation, augmentation, and feature engineering.

* Preparing the data ensures it is in the right format, free from errors, and representative of the problem domain, leading to better generalization in training.

* A (Tune the ML Algorithm): Hyperparameter tuning occurs after the model has been trained and evaluated.

* C (Agree on Acceptance Criteria): Acceptance criteria should already have been defined in the initial objective-setting phase before framework and model selection.

* D (Evaluate the Framework and Model): The selection of the framework and ML model has already been completed. The next step is data preparation, not reevaluation.

* ISTQB CT-AI Syllabus (Section 3.2: ML Workflow - Data Preparation Phase)

* "Data preparation comprises data acquisition, pre-processing, and feature engineering.

Exploratory data analysis (EDA) may be performed alongside these activities".

* "The data used to train, tune, and test the model must be representative of the operational data that will be used by the model".

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: Since the model selection is complete, the next step in the ML workflow is to prepare and pre-process the data to ensure it is ready for training and testing. Thus, the correct answer is B.

NEW QUESTION # 42

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