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ISTQB Certified Tester AI Testing Exam Sample Questions (Q43-Q48):

NEW QUESTION # 43

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. Prepare and pre-process the data that will be used to train and test the model
- C. Evaluate the selection of the framework and the model
- D. Tune the machine learning algorithm based on objectives and business priorities

Answer: D

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 # 44

Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?

SELECT ONE OPTION

- A. Testing the speed of the prediction by the model.
- B. Testing the accuracy of the classification model.
- C. Testing the API of the service powered by the ML model.
- D. Testing the speed of the training of the model.

Answer: D

Explanation:

The question asks which test is least likely to be performed during the ML model testing phase. Let's consider each option:

- * Testing the accuracy of the classification model (A): Accuracy testing is a fundamental part of the ML model testing phase. It ensures that the model correctly classifies the data as intended and meets the required performance metrics.
- * Testing the API of the service powered by the ML model (B): Testing the API is crucial, especially if the ML model is deployed as part of a service. This ensures that the service integrates well with other systems and that the API performs as expected.
- * Testing the speed of the training of the model (C): This is least likely to be part of the ML model testing phase. The speed of training is more relevant during the development phase when optimizing and tuning the model. During testing, the focus is more on the model's performance and behavior rather than how quickly it was trained.
- * Testing the speed of the prediction by the model (D): Testing the speed of prediction is important to ensure that the model meets performance requirements in a production environment, especially for real-time applications.

References:

* ISTQB CT-AI Syllabus Section 3.2 on ML Workflow and Section 5 on ML Functional Performance Metrics discuss the focus of testing during the model testing phase, which includes accuracy and prediction speed but not the training speed.

NEW QUESTION # 45

Pairwise testing can be used in the context of self-driving cars for controlling an explosion in the number of combinations of parameters.

Which ONE of the following options is LEAST likely to be a reason for this incredible growth of parameters?

SELECT ONE OPTION

- A. ML model metrics to evaluate the functional performance
- B. Different weather conditions
- C. Different features like ADAS, Lane Change Assistance etc.
- D. Different Road Types

Answer: A

Explanation:

Pairwise testing is used to handle the large number of combinations of parameters that can arise in complex systems like self-driving

cars. The question asks which of the given options is least likely to be a reason for the explosion in the number of parameters.

* Different Road Types (A): Self-driving cars must operate on various road types, such as highways, city streets, rural roads, etc. Each road type can have different characteristics, requiring the car's system to adapt and handle different scenarios. Thus, this is a significant factor contributing to the growth of parameters.

* Different Weather Conditions (B): Weather conditions such as rain, snow, fog, and bright sunlight significantly affect the performance of self-driving cars. The car's sensors and algorithms must adapt to these varying conditions, which adds to the number of parameters that need to be considered.

* ML Model Metrics to Evaluate Functional Performance (C): While evaluating machine learning (ML) model performance is crucial, it does not directly contribute to the explosion of parameter combinations in the same way that road types, weather conditions, and car features do. Metrics are used to measure and assess performance but are not themselves variable conditions that the system must handle.

* Different Features like ADAS, Lane Change Assistance, etc. (D): Advanced Driver Assistance Systems (ADAS) and other features add complexity to self-driving cars. Each feature can have multiple settings and operational modes, contributing to the overall number of parameters.

Hence, the least likely reason for the incredible growth in the number of parameters is C. ML model metrics to evaluate the functional performance.

References:

* ISTQB CT-AI Syllabus Section 9.2 on Pairwise Testing discusses the application of this technique to manage the combinations of different variables in AI-based systems, including those used in self-driving cars.

* Sample Exam Questions document, Question #29 provides context for the explosion in parameter combinations in self-driving cars and highlights the use of pairwise testing as a method to manage this complexity.

NEW QUESTION # 46

You have been developing test automation for an e-commerce system. One of the problems you are seeing is that object recognition in the GUI is having frequent failures. You have determined this is because the developers are changing the identifiers when they make code updates.

How could AI help make the automation more reliable?

- A. It could modify the automation code to ignore unrecognizable objects to avoid failures.
- B. It could dynamically name the objects, altering the source code, so the object names will match the object names used in the automation.
- C. It could generate a model that will anticipate developer changes and pre-alter the test automation code accordingly.
- **D. It could identify the objects multiple ways and then determine the most commonly used and stable identification for each object.**

Answer: D

Explanation:

Object recognition issues in test automation often arise when developers frequently change object identifiers in the GUI. AI can enhance the stability of GUI automation by:

* Using multiple criteria for object identification

* AI can track UI elements using multiple attributes such as XPath, label, ID, class, and screen coordinates rather than relying on a single identifier that may change over time.

* This approach makes the automation less brittle and more adaptive to changes in the UI.

* Why other options are incorrect?

* B (Ignore unrecognizable objects to avoid failures): Ignoring objects instead of identifying them properly would lead to incomplete or incorrect test execution.

* C (Dynamically name objects and alter source code): AI-based testing tools do not modify application source code; they work by adjusting the recognition strategy.

* D (Anticipate developer changes and pre-alter automation code): While AI can adapt, it does not predict future changes to the GUI, making this option unrealistic.

Thus, Option A is the best answer, as AI tools enhance object recognition by dynamically selecting the most stable and persistent identification methods, improving test automation reliability.

Certified Tester AI Testing Study Guide References:

* ISTQB CT-AI Syllabus v1.0, Section 11.6.1 (Using AI to Test Through the Graphical User Interface (GUI))

* ISTQB CT-AI Syllabus v1.0, Section 11.6.2 (Using AI to Test the GUI).

NEW QUESTION # 47

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. Metamorphic testing because the application domain is not clearly understood at this point.
- C. Pairwise testing using combinatorics to look at a long list of photo parameters.
- **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:

Back-to-back testing is used to compare two different versions of an ML model, which is precisely what is needed in this scenario.

* The model initially misclassified dogs as wolves due to feature similarities.

* The test team retrained the model with additional images of dogs and wolves.

* The best way to verify whether this additional training improved classification accuracy is to compare the original model's output with the newly trained model's output using the same test dataset.

* A (Metamorphic Testing): Metamorphic testing is useful for generating new test cases based on existing ones but does not directly compare different model versions.

* B (Adversarial Testing): Adversarial testing is used to check how robust a model is against maliciously perturbed inputs, not to verify training effectiveness.

* C (Pairwise Testing): Pairwise testing is a combinatorial technique for reducing the number of test cases by focusing on key variable interactions, not for validating model improvements.

* ISTQB CT-AI Syllabus (Section 9.3: Back-to-Back Testing)

* "Back-to-back testing is used when an updated ML model needs to be compared against a previous version to confirm that it performs better or as expected".

* "The results of the newly trained model are compared with those of the prior version to ensure that changes did not negatively impact performance".

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: To verify that the model's performance improved after retraining, back-to-back testing is the most appropriate method as it compares both model versions. Hence, the correct answer is D.

NEW QUESTION # 48

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