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ISTQB Certified Tester AI Testing Exam Sample Questions (Q50-Q55):

NEW QUESTION # 50
Which statement about testing levels for AI-based systems is correct?
Choose ONE option (1 out of 4)

- A. Input data testing checks whether the inputs from the data pipeline are received by the model correctly and exchanged with all system components
- B. ML model testing ensures that the relevant ML functional performance criteria are met
- C. Acceptance testing checks non-functional requirements such as explainability
- D. If AI is offered as a service, system testing includes API tests of the service

Answer: B

Explanation:
Section 4.3 - Test Levels for AI Systemsclearly defines ML model testing as the level at which testers evaluate whether an ML model fulfills itsfunctional performance criteria, including accuracy, precision, recall, F1, robustness, stability, and fairness. Therefore, Option C is the correct and syllabus-aligned statement.
Option A is incorrect because input data testing focuses onvalidity and correctness of data entering the model, not interactions with all system components. Option B is incorrect: acceptance testing in the syllabus focuses primarily onbusiness and stakeholder requirements, not specifically explainability. Explainability testing may occur at multiple levels depending on context. Option D is also incorrect because API testing belongs tointegration testing, not system testing, even when AI is consumed as a service.
Thus,Option Cis the only statement that precisely matches syllabus definitions.

NEW QUESTION # 51
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 sample bias.
- C. This is an example of hyperparameter bias.
- D. This is an example of expert system bias.

Answer: B

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, optionB(sample bias) best describes the situation because the training data is skewed towards ethnicity A, potentially leading to biased model performance.

NEW QUESTION # 52

Which characteristic of AI-based systems makes it difficult to ensure they are safe (e.g., not harming humans)?
Choose ONE option (1 out of 4)

- A. Complexity
- B. Interpretability
- C. Determinism
- D. Robustness

Answer: A

Explanation:
The ISTQB CT-AI syllabus lists several characteristics that make it difficult to ensure safety in AI-based systems. Section 2.8 - Safety and AI explicitly names the characteristics that complicate safety assurance:
complexity, non-determinism, probabilistic behavior, self-learning, lack of transparency, and lack of robustness. Among these, complexity is a core challenge because modern AI systems-particularly those using deep learning-have highly non-linear behavior, large numbers of parameters, and intricate interactions that are hard to predict.
Option B (Complexity) directly aligns with the syllabus and is therefore correct.
Option A (Determinism) is the opposite of AI behavior; AI is often non-deterministic, and determinism does not make systems unsafe.
Option C (Interpretability) does impact trust and explainability, but the syllabus positions it as a transparency challenge, not the primary difficulty in ensuring safety. Option D (Robustness) is a desired quality, not a reason safety is hard; a lack of robustness would be a challenge, not robustness itself.
Thus, complexity best reflects the syllabus' explicit safety-related difficulty.

NEW QUESTION # 53

Consider a natural language processing (NLP) algorithm that attempts to predict the next word that you would like to type in a text message. An update to the algorithm has been created that should increase the accuracy of the predictions based on user typing patterns. The old algorithm was rated for accuracy by the users. Then, after the new update was released, the users rated the updated algorithm. A statistical test was used to compare between the two versions of the algorithm to see whether or not the update should remain in place.
This is an example of what type of testing?

- A. Metamorphic testing
- B. A/B testing
- C. Exploratory testing
- D. Pairwise testing

Answer: B

Explanation:
A/B testing is a statistical testing method that compares two different versions of a system to determine which one performs better. In this scenario, the old NLP algorithm was rated for accuracy, and after the update, the new algorithm was also rated by users. A statistical test was performed to compare the two versions, which is the fundamental approach of A/B testing.
A/B testing is commonly used in:
* User experience testing (e.g., comparing different versions of a website).
* ML model evaluation (e.g., comparing two AI-based classifiers).
* Performance assessment (e.g., determining if a new recommendation algorithm is more effective).
This approach allows for data-driven decisions, ensuring that any changes to the system result in meaningful improvements.
* Section 9.4 - A/B Testing states that A/B testing is used to compare updates in AI-based systems to determine if the newer version is better.
Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 54

Which ONE of the following options is the MOST APPROPRIATE stage of the ML workflow to set model and algorithm hyperparameters?
SELECT ONE OPTION

- A. Data testing
- B. Tuning the model

- C. Evaluating the model
- D. Deploying the model

Answer: B

Explanation:
Setting model and algorithm hyperparameters is an essential step in the machine learning workflow, primarily occurring during the tuning phase.
* Evaluating the model (A): This stage involves assessing the model's performance using metrics and does not typically include the setting of hyperparameters.
* Deploying the model (B): Deployment is the stage where the model is put into production and used in real-world applications. Hyperparameters should already be set before this stage.
* Tuning the model (C): This is the correct stage where hyperparameters are set. Tuning involves adjusting the hyperparameters to optimize the model's performance.
* Data testing (D): Data testing involves ensuring the quality and integrity of the data used for training and testing the model. It does not include setting hyperparameters.
Hence, the most appropriate stage of the ML workflow to set model and algorithm hyperparameters isC.
Tuning the model.
References:
* ISTQB CT-AI Syllabus Section 3.2 on the ML Workflow outlines the different stages of the ML process, including the tuning phase where hyperparameters are set.
* Sample Exam Questions document, Question #31 specifically addresses the stage in the ML workflow where hyperparameters are configured.

NEW QUESTION # 55

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