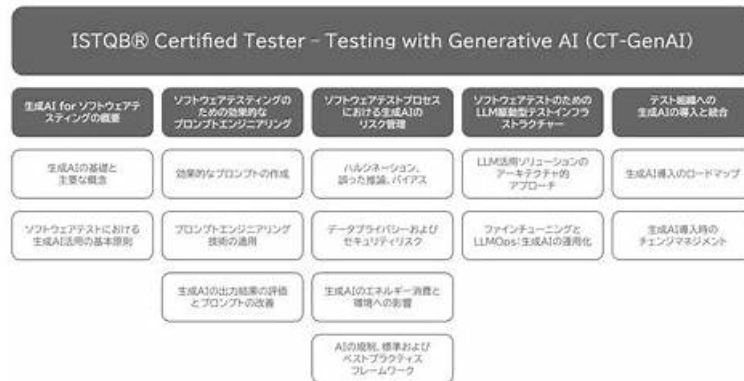


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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	systems from those required for conventional systems.
Topic 3	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	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 5	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 6	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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q106-Q111):

NEW QUESTION # 106

Which statement about AI-based test case generation is correct?

- A. An AI-based system under test must not be used as a functional test oracle.
- B. A different test oracle is usually required for each AI-generated functional test case.
- C. Expected results may not be available for AI-generated functional test cases.
- D. AI-generated functional test cases typically result in poor requirements coverage.

Answer: C

Explanation:

The ISTQB CT-AI syllabus indicates in Section 5.2 - AI for Testing that AI-generated test cases may not come with predefined expected results. This is because test-case generation methods-- such as evolutionary algorithms, reinforcement learning, or clustering-based sampling-- produce inputs, but the tester must still determine the correct outputs. Therefore, Option C is correct: expected results may not be available, especially when AI produces novel or previously unseen input combinations.

NEW QUESTION # 107

Which ONE of the following options describes a scenario of A/B testing the LEAST?

SELECT ONE OPTION

- A. A comparison of two different websites for the same company to observe from a user acceptance perspective.
- B. A comparison of the performance of two different ML implementations on the same input data.
- C. A comparison of two different offers in a recommendation system to decide on the more effective offer for same users.
- D. A comparison of the performance of an ML system on two different input datasets.

Answer: D

Explanation:

A/B testing, also known as split testing, is a method used to compare two versions of a product or system to determine which one performs better. It is widely used in web development, marketing, and machine learning to optimize user experiences and model performance. Here's why option C is the least descriptive of an A/B testing scenario:

Understanding A/B Testing:

In A/B testing, two versions (A and B) of a system or feature are tested against each other. The objective is to measure which version performs better based on predefined metrics such as user engagement, conversion rates, or other performance indicators.

Application in Machine Learning:

In ML systems, A/B testing might involve comparing two different models, algorithms, or system configurations on the same set of data to observe which yields better results.

Why Option C is the Least Descriptive:

Option C describes comparing the performance of an ML system on two different input datasets. This scenario focuses on the input data variation rather than the comparison of system versions or features, which is the essence of A/B testing. A/B testing typically involves a controlled experiment with two versions being tested under the same conditions, not different datasets.

Clarifying the Other Options:

A. A comparison of two different websites for the same company to observe from a user acceptance perspective: This is a classic example of A/B testing where two versions of a website are compared.

B. A comparison of two different offers in a recommendation system to decide on the more effective offer for the same users: This is another example of A/B testing in a recommendation system.

D. A comparison of the performance of two different ML implementations on the same input data: This fits the A/B testing model where two implementations are compared under the same conditions.

Reference:

ISTQB CT-AI Syllabus, Section 9.4, A/B Testing, explains the methodology and application of A/B testing in various contexts.

"Understanding A/B Testing" (ISTQB CT-AI Syllabus).

NEW QUESTION # 108

You have been asked for your opinion on the ML approach to be used for a new age verification system. A training dataset is available with many pictures of faces and the subject's age. When new users sign up to a mobile app, they have to take a picture of their face. If the system believes they are under 18 years old it will ask them to provide a picture of their passport to prove their age. Which ONE of the following approaches do you expect to be MOST likely to succeed?

- A. Reinforcement learning classification system with a reward function of correct behaviour.
- B. Unsupervised learning that identifies clusters in training data that relate to people's ages.
- **C. Supervised learning classification system that is re-trained based on new data, including whether they later provided ID that showed they were over 18.**
- D. Supervised learning regression system that is re trained based on new data, including whether they provided ID that showed their age.

Answer: C

Explanation:

The correct answer is B. The operational decision required by the system is categorical: the user is either treated as under 18 or not under 18 for the purpose of requesting passport evidence. The CT-AI syllabus states that classification is used when an input must be assigned to one of a few predefined classes, and that supervised learning requires labelled data. Here, the training dataset contains facial images and ages, so it can be converted into labelled classes such as "under 18" and "18 or over." Option A is weaker because unsupervised learning is used where labels are not provided and the goal is to identify patterns or clusters. In this case, useful labels already exist. Option C could predict a numeric age using regression, but the business decision is binary, so classification is the more direct and controlled approach. Option D is inappropriate because reinforcement learning is better suited to sequential decision-making through interaction with an environment, states, and rewards. The passport feedback provides useful labelled evidence for retraining, supporting supervised classification.

References/topics: CT-AI Syllabus Chapter 3, Sections 3.1.1 and 3.3 "Selecting a Form of ML."

NEW QUESTION # 109

Which statement describes factors related to test data that make testing AI-based systems difficult?

- A. Using the same implementation for data acquisition by data scientists and testers prevents defect masking
- B. The input data must always be the same over time, especially in real-world systems
- C. Artificially generated data requires legal approval and must be sanitized and encrypted
- **D. Creating and managing large amounts of test data can be difficult, especially when it needs to be representative**

Answer: D

Explanation:

Section 2.2 - Data Preparation and 4.1 - Challenges in Testing AI-Based Systems describe difficulties in obtaining and managing large, representative datasets. AI-based systems require realistic, diverse, and representative data reflecting real-world variations. The syllabus emphasizes that assembling such datasets is time-consuming, resource-intensive, and often constrained by availability, privacy, or domain complexity. Option B directly corresponds to these documented challenges.

NEW QUESTION # 110

Which performance metric is BEST suited to assess the quality of trained models detecting fraudulent credit card transactions? Choose ONE option (1 out of 4)

- A. Accuracy
- **B. F1 value**
- C. -
- D. Sensitivity

Answer: B

Explanation:

The ISTQB CT-AI syllabus explains in Section 3.2 - Functional Performance Criteria of ML Models that accuracy becomes unreliable when class imbalance exists. In fraud detection, more than 99% of transactions are non-fraudulent, meaning the dataset is extremely imbalanced. Because accuracy counts all correct non-fraudulent classifications, it will appear artificially high, even if the

fraud detection performance is poor.

Therefore, accuracy is not suitable for evaluating fraud detection systems.

The syllabus further explains that sensitivity (recall) captures the proportion of correctly identified fraudulent cases. This metric is important, as missing fraudulent events can cause high financial loss. However, the client also stresses that legitimate transactions must be correctly identified, meaning false positives must be minimized to maintain customer satisfaction.

The F1 score, defined as the harmonic mean of precision and recall, balances both:

* Precision protects legitimate customers by minimizing false alarms.

* Recall ensures fraudulent transactions are detected.

Section 3.2 emphasizes that when both false positives and false negatives have significant consequences, and the data is highly imbalanced, F1 is the most appropriate metric because it reflects the combined importance of detecting fraud while avoiding unnecessary alerts. Thus, Option C is the correct choice.

NEW QUESTION # 111

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