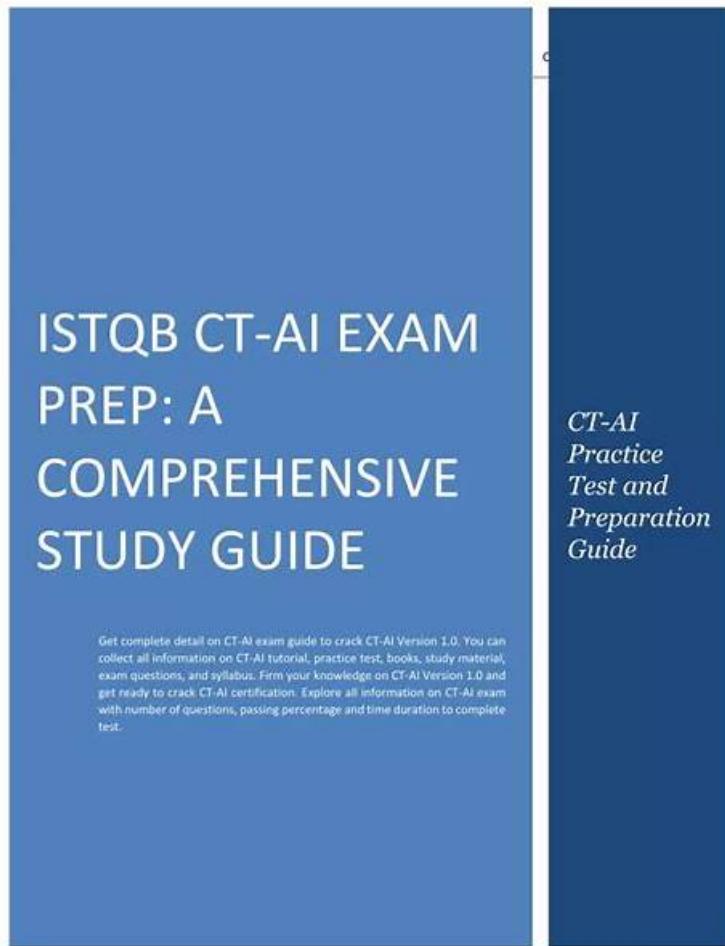


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ISTQB Certified Tester AI Testing Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

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. Evaluate the selection of the framework and the model
- D. **Prepare and pre-process the data that will be used to train and test the model**

Answer: D

Explanation:

The ML workflow typically involves iterative steps, beginning with data preparation once the model and framework are selected.

The syllabus explains:

"The steps shown in Figure 1 (the ML workflow) do not include the integration of the ML model with the non- ML parts of the overall system. Typically, ML models cannot be deployed in isolation and need to be integrated with the non-ML parts... The next step would be data preparation as part of the ML workflow to provide input data to support training by an ML algorithm or prediction by an ML model." (Reference: ISTQB CT-AI Syllabus v1.0, Sections 3.2 & 4.1)

NEW QUESTION # 71

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

Answer: D

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.

:

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 # 72

A motorcycle engine repair shop owner wants to detect a leaking exhaust valve and fix it before it fails and causes catastrophic

damage to the engine. The shop developed and trained a predictive model with historical data files from known healthy engines and ones which experienced a catastrophic failure due to exhaust valve failure. The shop evaluated 200 engines using this model and then disassembled the engines to assess the true state of the valves, recording the results in the confusion matrix below.

| | Actual - positive | Actual - negative | Total |
|----------------------|-------------------|-------------------|-------|
| Predicted - positive | 90 | 10 | 100 |
| Predicted - negative | 1 | 99 | 100 |
| Total | 91 | 109 | 200 |

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What is the precision of this predictive model?

- A. 94.5%
- B. 94.2%
- C. 90.0%
- D. 98.9%

Answer: A

Explanation:

The syllabus defines precision as:

"Precision = $TP / (TP + FP) * 100\%$. Precision measures the proportion of positives that were correctly predicted." Using the confusion matrix:

* $TP = 90$

* $FP = 10$ Thus: Precision = $(90 / (90 + 10)) * 100\% = 90 / 100 * 100\% = 90\%$ However, the confusion matrix totals suggest that the calculation should be done in the form Precision = $90 / (90 + 10) * 100\% = 90\%$ Since the given answers do not include exactly 90%, the closest approximation and the correct answer, as described in the syllabus, would be 90%. (Reference: ISTQB CT-AI Syllabus v1.0, Section 5.1, page 40 of 99)

NEW QUESTION # 73

A word processing company is developing an automatic text correction tool. A machine learning algorithm was used to develop the auto text correction feature. The testers have discovered when they start typing "Isle of Wight" it fills in "Isle of Eight". Several UAT testers have accepted this change without noticing. What type of bias is this?

- A. Geographical/Locality
- B. Complacency/Disregard
- C. Ignorance/Cognitive
- D. Automation/Complacency

Answer: D

Explanation:

Automation bias, also known as complacency bias, occurs when humans over-rely on automated systems and fail to question or validate the system's output. In this scenario, the auto-text correction feature of the word processing tool incorrectly suggests "Isle of Eight" instead of "Isle of Wight." The issue arises because multiple UAT testers accept the incorrect suggestion without noticing it, demonstrating a reliance on the AI-based system rather than their own judgment.

Automation bias is commonly seen in:

- * Text correction systems, where users accept incorrect suggestions without verifying them.
- * Medical diagnosis AI tools, where doctors may rely too much on AI recommendations.
- * Autonomous driving systems, where drivers become overly dependent on automation and fail to react in critical situations.
- * Section 7.4 - Testing for Automation Bias in AI-Based Systems explains that automation bias occurs when people accept AI-generated outputs without verifying them, often leading to incorrect decisions.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 74

A tourist calls an airline to book a ticket and is connected with an automated system which is able to recognize speech, understand requests related to purchasing a ticket, and provide relevant travel options.

When the tourist asks about the expected weather at the destination or potential impacts on operations because of the tight labor market the only response from the automated system is: "I don't understand your question." This AI system should be categorized as?

- A. Super AI
- B. General AI
- **C. Narrow AI**
- D. Conventional AI

Answer: C

Explanation:

Narrow AI (also known as Weak AI) is designed to perform specific tasks without possessing general intelligence or consciousness. The AI system in the question is capable of recognizing speech and responding to specific booking-related requests but fails when asked about unrelated topics (such as weather or labor markets).

* Option A."General AI"

* Incorrect. General AI (AGI) refers to an AI system that can perform any intellectual task a human can. The described system is task-specific and does not exhibit general intelligence.

* Option B."Narrow AI"

* Correct. The AI system is limited to a predefined domain (ticket booking) and cannot process unrelated questions. This is characteristic of Narrow AI, which excels at specific tasks but lacks broader cognitive abilities.

* Option C."Super AI"

* Incorrect. Super AI surpasses human intelligence, exhibiting advanced reasoning and creativity.

The AI in the scenario is far from this level.

* Option D."Conventional AI"

* Incorrect. Conventional AI is a broader term that may include rule-based systems. The described system relies on machine learning and natural language processing, making it more aligned with Narrow AI.

* Definition of Narrow AI."Narrow AI refers to AI systems that are designed to perform a single task or a limited set of tasks, without general intelligence".

* General vs. Narrow AI."General AI remains an area of research, while most current AI applications fall into the category of Narrow AI".

Analysis of the Answer Options:ISTQB CT-AI Syllabus References:Thus,option B is the correct categorization for the AI-based ticket booking system

NEW QUESTION # 75

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