ISTQB CT-AI Related Content - CT-AI Exam Simulator

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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 3	• 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.
Topic 4	• 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.
Topic 5	• systems from those required for conventional systems.
Topic 6	• 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 7	• 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 8	• 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.

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CT-AI Exam Simulator, CT-AI Study Material

Based on our years of experience, taking the ISTQB CT-AI exam without proper preparation is such a suicidal move. The Certified Tester AI Testing Exam is not easy to achieve because you first need to pass the Certified Tester AI Testing Exam CT-AI exam. The only way to be successful with your Certified Tester AI Testing Exam exam is by preparing it well with ISTQB CT-AI Dumps. This Certified Tester AI Testing Exam CT-AI exam is not even easy to go through. Most people failed it due to a lack of preparation.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q74-Q79):

NEW QUESTION # 74
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 features like ADAS, Lane Change Assistance etc.
- B. Different weather conditions
- C. ML model metrics to evaluate the functional performance
- D. Different Road Types

Answer: C

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 isleast likelyto 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, theleast likelyreason for the incredible growth in the number of parameters isC. 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 # 75
Which machine learning approach is most suitable for predicting customer purchase probability?

- A. Supervised learning (regression)
- B. Supervised learning (classification)
- C. Unsupervised learning
- D. Reinforcement learning

Answer: B

Explanation:
The ISTQB CT-AI syllabus explains in Section1.6 - Machine Learning Approachesthatsupervised learningis appropriate when labeled data exists and the goal is to predict an output based on known historical examples. Predicting a customer'spurchase probabilityis aclassificationtask when the output corresponds to discrete categories such as"likely to purchase"vs."not likely to purchase."The syllabus gives similar examples in describing classification as the process of assigning instances to predefined classes based on learned patterns in labeled data. Because the retail company wants to determine whether a customer will make a purchase based on marketing actions, classification is the most appropriate choice .

NEW QUESTION # 76
An ML engineer performing supervised learning needs to label images of football games based on the location of the football in the image. Which ONE of the below labeling approaches can be used?

- A. Annotation
- B. Internal
- C. Augmentation
- D. Benchmarking

Answer: A

Explanation:
Annotation is the correct labeling approach for supervised learning, as it involves manually labeling the images with the correct information, such as marking the location of the football in the image. This labeled data can then be used to train a machine learning model.

NEW QUESTION # 77
Which ONE of the below is MOST likely to indicate a problem with underfitting in an ML model?

- A. The model is vulnerable to adversarial attacks
- B. The model uses a large amount of resources to make a prediction
- C. The model fails to generalize on new data
- D. The model is inaccurate on data similar to the training data

Answer: D

Explanation:
Underfitting occurs when the model is too simplistic to capture the underlying patterns in the training data. This results in poor performance not only on new data but also on the data it was trained on. Thus, if the model is inaccurate on data similar to the training data, it suggests underfitting.

NEW QUESTION # 78
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 features like ADAS, Lane Change Assistance etc.
- B. Different weather conditions
- C. ML model metrics to evaluate the functional performance
- D. Different Road Types

Answer: C

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 isleast likelyto 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.
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NEW QUESTION # 79
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