

# CT-AI Test Questions Answers, CT-AI Valid Test Registration



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### ISTQB Certified Tester AI Testing Exam Sample Questions (Q115-Q120):

#### NEW QUESTION # 115

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 Road Types
- C. Different features like ADAS, Lane Change Assistance etc.
- D. Different weather conditions

**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.

Reference:

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 # 116

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 sample bias.
- B. This is an example of hyperparameter bias.
- C. This is an example of expert system bias.
- D. This is an example of algorithmic bias.

**Answer: A**

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

### NEW QUESTION # 117

Which assignment of AI techniques to testing support is BEST?

- A. Classification for the optimization of regression test cases
- B. Computational optimization techniques for defect prediction
- C. Fuzzy logic for the generation of test cases
- D. Probabilistic methods for the prediction of system failures

**Answer: D**

Explanation:

The ISTQB CT-AI syllabus (Section 5.2 - AI for Testing) explains that various AI approaches can support testing activities. Probabilistic methods--one of the three major AI technique groups--are used to predict system failures, especially when dealing with uncertainty, likelihood estimation, and reliability analysis. This aligns precisely with Option B.

#### NEW QUESTION # 118

You have access to the training data that was used to train an AI-based system. You can review this information and use it as a guideline when creating your tests. What type of characteristic is this?

- A. Accessibility
- B. Explorability
- C. Autonomy
- **D. Transparency**

**Answer: D**

Explanation:

AI-based systems can sometimes behave like black boxes, where the internal decision-making process is unclear. Transparency refers to the ability to inspect and understand the training data, algorithms, and decision-making process of the AI system.

Transparency ensures that testers and stakeholders can review how an AI system was trained.

Access to training data is a key factor in transparency because it allows testers to analyze biases, completeness, and representativeness of the dataset.

Transparency is an essential characteristic of explainable AI (XAI). Having access to training data means that testers can investigate how data influences AI behavior.

Regulatory and ethical AI guidelines emphasize transparency. Many AI ethics frameworks, such as GDPR and Trustworthy AI guidelines, recommend transparency to ensure fair and explainable AI decision-making.

#### NEW QUESTION # 119

The activation value output for a neuron in a neural network is obtained by applying computation to the neuron.

Which ONE of the following options BEST describes the inputs used to compute the activation value?

- **A. Individual bias at the neuron level, activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.**
- B. Individual bias at the neuron level, and weights assigned to the connections between the neurons.
- C. Activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.
- D. Individual bias at the neuron level, and activation values of neurons in the previous layer.

**Answer: A**

Explanation:

Option A correctly identifies all components involved in computing the activation value: the individual bias, the activation values of the previous layer, and the weights of the connections.

#### NEW QUESTION # 120

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