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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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.
Topic 2	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 6	<ul style="list-style-type: none"> systems from those required for conventional systems.
Topic 7	<ul style="list-style-type: none"> Testing AI-Based Systems Overview: In this section, focus is given to how system specifications for AI-based systems can create challenges in testing and explain automation bias and how this affects testing.
Topic 8	<ul style="list-style-type: none"> Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
Topic 9	<ul style="list-style-type: none"> 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.

ISTQB Certified Tester AI Testing Exam Sample Questions (Q102-Q107):

NEW QUESTION # 102

A local business has a mail pickup/delivery robot for their office. The robot currently uses a track to move between pickup/drop off locations. When it arrives at a destination, the robot stops to allow a human to remove or deposit mail.

The office has decided to upgrade the robot to include AI capabilities that allow the robot to perform its duties without a track, without running into obstacles, and without human intervention.

The test team is creating a list of new and previously established test objectives and acceptance criteria to be used in the testing of the robot upgrade. Which of the following test objectives will test an AI quality characteristic for this system?

- A. The robot must complete 99.99% of its deliveries each day
- **B. The robot must evolve to optimize its routing**
- C. The robot must record the time of each delivery which is compiled into a report
- D. The robot must recharge for no more than six hours a day

Answer: B

Explanation:

In the syllabus, the evolution characteristic for AI-based systems means the ability of the system to evolve and adapt its behavior in response to changes in the environment or in its own performance:

"Evolution is the system's ability to change itself to adapt to new situations, different hardware, or a changing operational environment."

NEW QUESTION # 103

Which of the following problems would best be solved using the supervised learning category of regression?

- A. Determining the optimal age for a chicken's egg-laying production using input data of the chicken's age and average daily egg production for one million chickens
- B. Predicting shopper purchasing behavior based on the category of shopper and the positioning of promotional displays within a store
- C. Determining if an animal is a pig or a cow based on image recognition
- D. Recognizing a knife in carry-on luggage at a security checkpoint in an airport scanner

Answer: A

Explanation:

The syllabus states:

"Supervised learning... divides problems into two categories: classification and regression. Regression is used when the problem requires the ML model to predict a numeric output, for example predicting the age of a person based on their habits." (Reference: ISTQB CT-AI Syllabus v1.0, Section 3.1.1, Page 26 of 99)

NEW QUESTION # 104

Which ONE of the following options describes the LEAST LIKELY usage of AI for detection of GUI changes due to changes in test objects?

SELECT ONE OPTION

- A. Using a ML-based classifier to flag if changes in GUI are to be flagged for humans.
- B. Using a vision-based detection of the GUI layout changes before and after test object changes.
- C. Using a computer vision to compare the GUI before and after the test object changes.
- D. Using a pixel comparison of the GUI before and after the change to check the differences.

Answer: D

Explanation:

* A. Using a pixel comparison of the GUI before and after the change to check the differences.

Pixel comparison is a traditional method and does not involve AI . It compares images at the pixel level, which can be effective but is not an intelligent approach. It is not considered an AI usage and is the least likely usage of AI for detecting GUI changes.

* B. Using computer vision to compare the GUI before and after the test object changes.

Computer vision involves using AI techniques to interpret and process images. It is a likely usage of AI for detecting changes in the GUI .

* C. Using vision-based detection of the GUI layout changes before and after test object changes.

Vision-based detection is another AI technique where the layout and structure of the GUI are analyzed to detect changes. This is a typical application of AI .

* D. Using a ML-based classifier to flag if changes in GUI are to be flagged for humans.

An ML-based classifier can intelligently determine significant changes and decide if they need human review, which is a sophisticated AI application.

NEW QUESTION # 105

Which ONE of the below statements BEST describes how combinatorial testing can be applied to AI-based systems?

- A. Combinatorial testing cannot yet be applied to AI
- B. Inputs to the system and environment factors can be considered parameters for pairwise tests
- C. Two variants of the system can be used and compared
- D. Each neuron can be treated as a parameter for pairwise tests

Answer: B

Explanation:

Combinatorial testing involves testing different combinations of input parameters to ensure coverage of various interactions. In the case of AI-based systems, inputs to the system (such as data features) and environment factors (like conditions under which the system operates) can be considered parameters for pairwise tests. This ensures that different combinations of inputs and environmental factors are tested for their effect on the system's behavior.

NEW QUESTION # 106

You have been developing test automation for an e-commerce system. One of the problems you are seeing is that object recognition in the GUI is having frequent failures. You have determined this is because the developers are changing the identifiers when they make code updates.

How could AI help make the automation more reliable?

- A. It could modify the automation code to ignore unrecognizable objects to avoid failures.
- B. It could dynamically name the objects, altering the source code, so the object names will match the object names used in the automation.
- C. It could generate a model that will anticipate developer changes and pre-alter the test automation code accordingly.
- **D. It could identify the objects multiple ways and then determine the most commonly used and stable identification for each object.**

Answer: D

Explanation:

Object recognition issues in test automation often arise when developers frequently change object identifiers in the GUI. AI can enhance the stability of GUI automation by:

* Using multiple criteria for object identification

* AI can track UI elements using multiple attributes such as XPath, label, ID, class, and screen coordinates rather than relying on a single identifier that may change over time.

* This approach makes the automation less brittle and more adaptive to changes in the UI.

* Why other options are incorrect?

* B (Ignore unrecognizable objects to avoid failures): Ignoring objects instead of identifying them properly would lead to incomplete or incorrect test execution.

* C (Dynamically name objects and alter source code): AI-based testing tools do not modify application source code; they work by adjusting the recognition strategy.

* D (Anticipate developer changes and pre-alter automation code): While AI can adapt, it does not predict future changes to the GUI, making this option unrealistic.

Thus, Option A is the best answer, as AI tools enhance object recognition by dynamically selecting the most stable and persistent identification methods, improving test automation reliability.

Certified Tester AI Testing Study Guide References:

* ISTQB CT-AI Syllabus v1.0, Section 11.6.1 (Using AI to Test Through the Graphical User Interface (GUI))




* ISTQB CT-AI Syllabus v1.0, Section 11.6.2 (Using AI to Test the GUI).

NEW QUESTION # 107

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