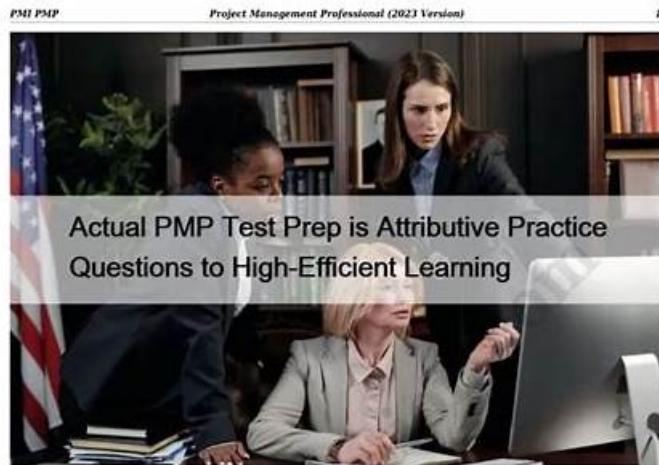


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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none"> Testing AI-Specific Quality Characteristics: In this section, the topics covered are about the challenges in testing created by the self-learning of AI-based systems.
Topic 4	<ul style="list-style-type: none"> systems from those required for conventional systems.
Topic 5	<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 6	<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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q71-Q76):

NEW QUESTION # 71

A team of software testers is attempting to create an AI algorithm to assist in software testing. This particular team has gone through over 40 iterations of testing and cannot afford to spend as much time as it takes to run the full regression test suite. They are hoping to have the algorithm reduce the amount of testing required thus reducing the time needed for each testing cycle.

How can an AI-based tool be expected to assist in this reduction?

- A. By performing bayesian analysis to estimate the types of human interactions that are expected to be seen in the system and then selecting those test cases
- B. By performing optimization of the data from past iterations to see where the most common defects occurred and select the corresponding test cases**
- C. By using A/B testing to compare the last update with the newest change and compare metrics between the two
- D. By using a clustering method to quantify the relationships between test cases and then assigning each test case to a category

Answer: B

Explanation:

AI-based tools can significantly optimize regression test suites by analyzing historical data, past test results, associated defects, and changes made to the software. These tools prioritize and select the most relevant test cases based on previous defect patterns and frequently failing features, which helps in reducing the test execution time while maintaining effectiveness.

The optimization process involves:

* Prioritizing test cases: AI-based tools rank test cases based on past defect detection trends, ensuring that the most relevant tests are executed first.

* Reducing redundant test cases: The tool can eliminate test cases that do not contribute significantly to defect detection, reducing overall test execution time.

* Augmenting test cases: The AI can also suggest new test cases if certain features are more prone to defects.

This approach has been proven to reduce regression test suite sizes by up to 50% while maintaining fault detection capabilities.

* Section 11.4 - Using AI for the Optimization of Regression Test Suites states that AI-based tools can optimize regression test suites by analyzing past test data and defect occurrences, leading to significant reductions in test execution time.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 72

A beer company is trying to understand how much recognition its logo has in the market. It plans to do that by monitoring images on various social media platforms using a pre-trained neural network for logo detection.

This particular model has been trained by looking for words, as well as matching colors on social media images. The company logo has a big word across the middle with a bold blue and magenta border.

Which associated risk is most likely to occur when using this pre-trained model?

- A. Improper data preparation
- B. Insufficient function; the model was not trained to check for colors or words
- C. There is no risk, as the model has already been trained
- D. **Inherited bias: the model could have inherited unknown defects**

Answer: D

Explanation:

A major risk when using a pre-trained neural network for logo detection is that it may inherit biases and defects from the original dataset and training process. This means that the model could misidentify or fail to recognize certain logos due to:

* Differences in data preparation: The original training data may have used a different preprocessing method than the new dataset, leading to inconsistencies.

* Limited transparency: The exact details of the dataset and biases within it may not be known, which can cause unexpected behavior.

* Bias in logo detection: If the model was trained on a dataset with certain color or text preferences, it may disproportionately misidentify logos with similar characteristics.

This inherited bias can result in:

* False Positives: Recognizing other brand logos as the beer company's logo.

* False Negatives: Failing to detect the actual logo when variations occur (e.g., different lighting or partial visibility).

* Algorithmic Bias: The model may favor certain shapes or color contrasts due to biased training data.

Thus, the most appropriate risk associated with using this pre-trained model is inherited bias.

* Section 1.8.3 - Risks of Using Pre-Trained Models and Transfer Learning explains how pre-trained models may inherit biases and undocumented defects that affect performance in a new environment.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 73

Which challenge to testing self-learning systems puts you at risk of a data attack?

Choose ONE option (1 out of 4)

- A. Complex test environment
- B. **Unexpected changes**
- C. Inadequate specification of the operating environment
- D. Insufficient testing time

Answer: B

Explanation:

The ISTQB CT-AI syllabus describes that self-learning systems continuously adjust their behavior during operation as new data arrives. Section 4.1 - Challenges of Testing AI-Based Systems highlights that such systems are vulnerable to data attacks, particularly through adversarial inputs, poisoning, or malicious drift.

The risk arises because unexpected changes in the input distribution may alter the learned model in harmful ways. Option D - Unexpected changes corresponds directly to this syllabus-defined risk.

Option A refers to system specification issues but does not relate to data attacks. Option B discusses environment complexity, which makes testing difficult but is not tied to adversarial threats. Option C (insufficient testing time) affects quality but does not specifically increase vulnerability to malicious data manipulation.

Unexpected changes - including data drift, poisoned samples, or maliciously constructed training data - pose the greatest risk. When a self-learning system adapts to altered data patterns, it may unknowingly learn incorrect associations, causing model degradation or manipulation. Therefore, Option D correctly identifies the challenge that increases exposure to data attacks.

NEW QUESTION # 74

Which of the following is correct regarding the layers of a deep neural network?

- A. There is at least one internal hidden layer
- B. There must be a minimum of five total layers to be considered deep
- C. There is only an input and output layer
- D. The output layer is not connected with the other layers to maintain integrity

Answer: A

Explanation:

The syllabus clearly explains the structure of a deep neural network (DNN):

"A deep neural network comprises three types of layers. The input layer receives inputs... Between the input and output layers are hidden layers made up of artificial neurons, which are also known as nodes." (Reference: ISTQB CT-AI Syllabus v1.0, Section 6.1, page 45 of 99)

NEW QUESTION # 75

Which data-labeling approach uses a two-step process where labeling is first done by a tool and then verified or completed by a human?

Choose ONE option (1 out of 4)

- A. Outsourced data labeling
- B. Crowdsourced data labeling
- C. AI-assisted data labeling
- D. Internal data labeling

Answer: C

Explanation:

Section 2.4 - Data Labeling Approaches of the ISTQB CT-AI syllabus explicitly defines AI-assisted data labeling as a hybrid process in which an automated tool performs the initial labeling and human annotators subsequently verify, correct, or complete the labels. This two-step process improves efficiency while retaining human oversight to ensure data quality. The syllabus describes this method as an effective compromise when manual labeling alone would be too slow or costly, and when initial automation can identify obvious patterns before a human provides the final authoritative labels.

Option A (internal labeling) refers to labeling conducted by the organization's own staff but does not imply automation. Option B (crowdsourced labeling) leverages a distributed workforce, typically without automation. Option C (outsourced labeling) transfers labeling tasks to external vendors but similarly does not involve an AI-first step. Only Option D reflects the two-stage automated-then-human workflow described in the syllabus.

Therefore, AI-assisted data labeling (Option D) is unequivocally correct.

NEW QUESTION # 76

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