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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• systems from those required for conventional systems.
Topic 2	<ul style="list-style-type: none">• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.
Topic 3	<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 4	<ul style="list-style-type: none">• 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 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">• 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.

- 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.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

"AllerEgo" is a product that uses self-learning to predict the behavior of a pilot under combat situation for a variety of terrains and enemy aircraft formations. Post training the model was exposed to the real- world data and the model was found to be behaving poorly. A lot of data quality tests had been performed on the data to bring it into a shape fit for training and testing. Which ONE of the following options is least likely to describes the possible reason for the fall in the performance, especially when considering the self-learning nature of the AI system?

SELECT ONE OPTION

- A. The unknown nature and insufficient specification of the operating environment might have caused the poor performance.
- **B. The difficulty of defining criteria for improvement before the model can be accepted.**
- C. The fast pace of change did not allow sufficient time for testing.
- D. There was an algorithmic bias in the AI system.

Answer: B

Explanation:

* A. The difficulty of defining criteria for improvement before the model can be accepted.

* Defining criteria for improvement is a challenge in the acceptance of AI models, but it is not directly related to the performance drop in real-world scenarios. It relates more to the evaluation and deployment phase rather than affecting the model's real-time performance post-deployment.

* B. The fast pace of change did not allow sufficient time for testing.

* This can significantly affect the model's performance. If the system is self-learning, it needs to adapt quickly, and insufficient testing time can lead to incomplete learning and poor performance.

* C. The unknown nature and insufficient specification of the operating environment might have caused the poor performance.

* This is highly likely to affect performance. Self-learning AI systems require detailed specifications of the operating environment to adapt and learn effectively. If the environment is insufficiently specified, the model may fail to perform accurately in real-world scenarios.

* D. There was an algorithmic bias in the AI system.

* Algorithmic bias can significantly impact the performance of AI systems. If the model has biases, it will not perform well across different scenarios and data distributions.

Given the context of the self-learning nature and the need for real-time adaptability, option A is least likely to describe the fall in performance because it deals with acceptance criteria rather than real-time performance issues.

NEW QUESTION # 39

Which ONE of the following options is the MOST APPROPRIATE stage of the ML workflow to set model and algorithm hyperparameters?

SELECT ONE OPTION

- **A. Tuning the model**

- B. Evaluating the model
- C. Data testing
- D. Deploying the model

Answer: A

Explanation:

Setting model and algorithm hyperparameters is an essential step in the machine learning workflow, primarily occurring during the tuning phase.

* Evaluating the model (A): This stage involves assessing the model's performance using metrics and does not typically include the setting of hyperparameters.

* Deploying the model (B): Deployment is the stage where the model is put into production and used in real-world applications. Hyperparameters should already be set before this stage.

* Tuning the model (C): This is the correct stage where hyperparameters are set. Tuning involves adjusting the hyperparameters to optimize the model's performance.

* Data testing (D): Data testing involves ensuring the quality and integrity of the data used for training and testing the model. It does not include setting hyperparameters.

Hence, the most appropriate stage of the ML workflow to set model and algorithm hyperparameters is C.

Tuning the model.

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ISTQB CT-AI Syllabus Section 3.2 on the ML Workflow outlines the different stages of the ML process, including the tuning phase where hyperparameters are set.

Sample Exam Questions document, Question #31 specifically addresses the stage in the ML workflow where hyperparameters are configured.

NEW QUESTION # 40

A neural network has been designed and created to assist day-traders improve efficiency when buying and selling commodities in a rapidly changing market. Suppose the test team executes a test on the neural network where each neuron is examined. For this network, the shortest path indicates a "buy" and it will only occur when the one-day predicted value of the commodity is greater than the spot price by 0.75%. The neurons are stimulated by entering commodity prices and testers verify that they activate only when the future value exceeds the spot price by at least 0.75%.

Which of the following statements BEST explains the type of coverage being tested on the neural network?

- A. Sign-change coverage
- B. Value-change coverage
- **C. Threshold coverage**
- D. Neuron coverage

Answer: C

Explanation:

The syllabus details that threshold coverage requires each neuron to achieve an activation value greater than a specified threshold:

"Threshold coverage: Full threshold coverage requires that each neuron in the neural network achieves an activation value greater than a specified threshold." (Reference: ISTQB CT-AI Syllabus v1.0, Section 6.2, page 48 of 99)

NEW QUESTION # 41

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

- A. Predicting shopper purchasing behavior based on the category of shopper and the positioning of promotional displays within a store
- B. Determining if an animal is a pig or a cow based on image recognition
- C. Recognizing a knife in carry-on luggage at a security checkpoint in an airport scanner
- **D. 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**

Answer: D

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 # 42

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

Answer: D

Explanation:

The syllabus describes automation bias as:

"A type of bias caused by a person favoring the recommendations of an automated decision-making system over other sources."

This is also known as complacency bias, where testers accept automated system outputs without questioning them.

(Reference: ISTQB CT-AI Syllabus v1.0, Glossary, Page 89 of 99)

NEW QUESTION # 43

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