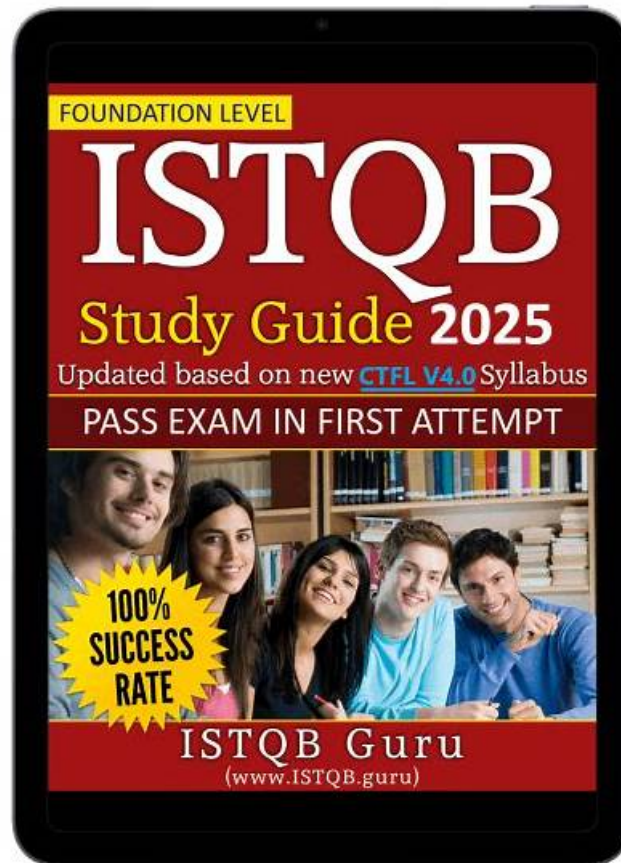


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ISTQB Certified Tester AI Testing Exam Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which ONE of the following options does NOT describe a challenge for acquiring test data in ML systems?

SELECT ONE OPTION

- A. Data for the use case is being generated at a fast pace.
- B. Test data being sourced from public sources.
- C. Compliance needs require proper care to be taken of input personal data.
- D. Nature of data constantly changes with time.

Answer: A

Explanation:

* Challenges for Acquiring Test Data in ML Systems: Compliance needs, the changing nature of data over time, and sourcing data from public sources are significant challenges. Data being generated quickly is generally not a challenge; it can actually be beneficial as it provides more data for training and testing.

* Reference: ISTQB_CT-AI_Syllabus_v1.0, Sections on Data Preparation and Data Quality Issues.

NEW QUESTION # 50

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

Answer: B

Explanation:

According to the syllabus, pre-trained models often inherit biases and limitations from the data and processes used in their original training, which may not align with the new use case. Specifically, the syllabus states:

"When using a pre-trained model, the training data and process cannot be fully controlled or known by the user of the model. As a result, the model can inherit biases or inaccuracies that were part of its original development and training process." (Reference: ISTQB CT-AI Syllabus v1.0, Section 1.8.3)

NEW QUESTION # 51

Which of the following is a dataset issue that can be resolved using pre-processing?

- A. Numbers stored as strings
- B. Insufficient data
- C. Wanted outliers
- D. Invalid data

Answer: A

Explanation:

Pre-processing is an essential step in data preparation that ensures data is clean, formatted correctly, and structured for effective machine learning (ML) model training. One common issue that can be resolved during pre-processing is numbers stored as strings.

Explanation of Answer Choices:

* Option A: Insufficient data

* Incorrect. Pre-processing cannot resolve insufficient data. If data is lacking, techniques like data augmentation or external data

collection are needed.

* Option B: Invalid data

* Incorrect. While pre-processing can identify and handle some forms of invalid data (e.g., missing values, duplicate entries), it does not resolve all invalid data issues. Some cases may require domain expertise to determine validity.

* Option C: Wanted outliers

* Incorrect. Pre-processing usually focuses on handling unwanted outliers. Wanted outliers may need to be preserved, which is more of a data selection decision rather than pre-processing.

* Option D: Numbers stored as strings

* Correct. One of the key functions of data pre-processing is data transformation, which includes converting incorrectly formatted data types, such as numbers stored as strings, into their correct numerical format.

ISTQB CT-AI Syllabus References:

* Data Pre-Processing Steps: "Transformation: The format of the given data is changed (e.g., breaking an address held as a string into its constituent parts, dropping a field holding a random identifier, converting categorical data into numerical data, changing image formats)".

NEW QUESTION # 52

A system was developed for screening the X-rays of patients for potential malignancy detection (skin cancer). A workflow system has been developed to screen multiple cancers by using several individually trained ML models chained together in the workflow.

Testing the pipeline could involve multiple kind of tests (I - III):

I . Pairwise testing of combinations

II . Testing each individual model for accuracy

III . A/B testing of different sequences of models

Which ONE of the following options contains the kinds of tests that would be MOST APPROPRIATE to include in the strategy for optimal detection?

SELECT ONE OPTION

- A. I and II
- B. Only III
- C. I and III
- D. Only II

Answer: A

Explanation:

The question asks which combination of tests would be most appropriate to include in the strategy for optimal detection in a workflow system using multiple ML models.

Pairwise testing of combinations (I): This method is useful for testing interactions between different components in the workflow to ensure they work well together, identifying potential issues in the integration.

Testing each individual model for accuracy (II): Ensuring that each model in the workflow performs accurately on its own is crucial before integrating them into a combined workflow.

A/B testing of different sequences of models (III): This involves comparing different sequences to determine which configuration yields the best results. While useful, it might not be as fundamental as pairwise and individual accuracy testing in the initial stages.

Reference:

ISTQB CT-AI Syllabus Section 9.2 on Pairwise Testing and Section 9.3 on Testing ML Models emphasize the importance of testing interactions and individual model accuracy in complex ML workflows.

NEW QUESTION # 53

Which of the following are the three activities in the data acquisition activities for data preparation?

- A. Feature selecting, feature growing, feature augmenting
- B. Identifying, gathering, labelling
- C. Cleaning, transforming, augmenting
- D. Building, approving, deploying

Answer: B

Explanation:

According to the ISTQB Certified Tester AI Testing (CT-AI) syllabus, data acquisition, a critical step in data preparation for machine learning (ML) workflows, consists of three key activities:

* **Identification:** This step involves determining the types of data required for training and prediction. For example, in a self-driving car application, data types such as radar, video, laser imaging, and LiDAR (Light Detection and Ranging) data may be identified as necessary sources.

* **Gathering:** After identifying the required data types, the sources from which the data will be collected are determined, along with the appropriate collection methods. An example could be gathering financial data from the International Monetary Fund (IMF) and integrating it into an AI-based system.

* **Labeling:** This process involves annotating or tagging the collected data to make it meaningful for supervised learning models. Labeling is an essential activity that helps machine learning algorithms differentiate between categories and make accurate predictions.

These activities ensure that the data is suitable for training and testing machine learning models, forming the foundation of data preparation.

NEW QUESTION # 54

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