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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• systems from those required for conventional systems.
Topic 5	• 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 6	• 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 7	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q65-Q70):

NEW QUESTION # 65
Which of the following is a dataset issue that can be resolved using pre-processing?

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

Answer: C

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 # 66
A company is using a spam filter to attempt to identify which emails should be marked as spam. Detection rules are created by the filter that causes a message to be classified as spam. An attacker wishes to have all messages internal to the company be classified as spam. So, the attacker sends messages with obvious red flags in the body of the email and modifies the "from" portion of the email to make it appear that the emails have been sent by company members. The testers plan to use exploratory data analysis (EDA) to detect the attack and use this information to prevent future adversarial attacks.
How could EDA be used to detect this attack?

- A. EDA can restrict how many inputs can be provided by unique users
- B. EDA can help detect the outlier emails from the real emails
- C. EDA can detect and remove the false emails
- D. EDA cannot be used to detect the attack

Answer: B

Explanation:
The syllabus explains that EDA can be used to analyze data to identify outliers and unusual patterns, which can indicate adversarial attacks like data poisoning:
"Testing to detect data poisoning is possible using EDA, as poisoned data may show up as outliers." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.1.2, page 67 of 99)

NEW QUESTION # 67

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

Answer: A

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 # 68

The stakeholders of a machine learning model have confirmed that they understand the objective and purpose of the model, and ensured that the proposed model aligns with their business priorities. They have also selected a framework and a machine learning model that they will be using. What should be the next step to progress along the machine learning workflow?

- A. Tune the machine learning algorithm based on objectives and business priorities
- B. Agree on defined acceptance criteria for the machine learning model
- C. Prepare and pre-process the data that will be used to train and test the model
- D. Evaluate the selection of the framework and the model

Answer: C

Explanation:

The ML workflow typically involves iterative steps, beginning with data preparation once the model and framework are selected. The syllabus explains:

"The steps shown in Figure 1 (the ML workflow) do not include the integration of the ML model with the non- ML parts of the overall system. Typically, ML models cannot be deployed in isolation and need to be integrated with the non-ML parts... The next step would be data preparation as part of the ML workflow to provide input data to support training by an ML algorithm or prediction by an ML model." (Reference: ISTQB CT-AI Syllabus v1.0, Sections 3.2 & 4.1)

NEW QUESTION # 69

Which ONE of the following options represents a technology MOST TYPICALLY used to implement AI?
SELECT ONE OPTION

- A. Genetic algorithms

- B. Case control structures
- C. Search engines
- D. Procedural programming

Answer: A

Explanation:
* Technology Most Typically Used to Implement AI: Genetic algorithms are a well-known technique used in AI . They are inspired by the process of natural selection and are used to find approximate solutions to optimization and search problems. Unlike search engines, procedural programming, or case control structures, genetic algorithms are specifically designed for evolving solutions and are commonly employed in AI implementations.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Section 1.4 AI Technologies, which identifies different technologies used to implement AI.

NEW QUESTION # 70

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