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When test cases are designed early in the lifecycle, verifying the test basis via the test design, what common test objective is being achieved?

- a. Gaining confidence
 - b. Finding defects
 - c. Preventing defects
 - d. Providing information for decision making -
- Correct Answer-c. Preventing defects

When following the fundamental test process, when should the test control activity take place?

- a. During the planning activities
 - b. During the implementation and execution activities
 - c. During the monitoring activities
 - d. During all the activities - Correct Answer-d.
- During all the activities

Control occurs throughout the project to ensure that it is staying on track based on the plan and to take any corrective steps that may be necessary. The monitoring information is used to determine if control actions are needed.

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q31-Q36):

NEW QUESTION # 31

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. Insufficient function; the model was not trained to check for colors or words
- D. Improper data preparation

Answer: A

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."

NEW QUESTION # 32

How can a tester check the system for bias as part of a review of data sources, acquisition, and preprocessing?

Choose ONE option (1 out of 4)

- A. During the review of the preprocessing, the auditor can uncover whether the data has been influenced in a way that could lead to sample distortions.
- B. It may use the LIME method as part of its data collection review to detect inappropriate bias.
- C. During the review, it can uncover algorithmic bias by analysing the procedures used to obtain the training data.
- D. As part of the review of preprocessing, it can reveal whether the data has been influenced in a way that could lead to algorithmic bias.

Answer: A

Explanation:

Bias detection at the data level is performed by reviewing data acquisition and preprocessing steps, as explained in Section 2.3 - Data Quality and Bias of the ISTQB CT-AI syllabus. Sample bias arises when data is distorted or when preprocessing introduces unintended shifts—for example, by filtering, normalization, or labeling steps that disproportionately affect subsets of the data.

Option B correctly reflects this: reviewers can identify whether preprocessing steps have altered the dataset in a way that introduces sample distortions. This aligns perfectly with syllabus guidance on reviewing data pipelines for bias sources.

Option A is incorrect because algorithmic bias originates from the model, not data collection procedures.

Option C is incorrect because LIME is an explainability method applied post-model, not in data reviews.

Option D incorrectly states "algorithmic bias," but preprocessing affects sample bias, not algorithmic bias.

Thus, Option B correctly matches the syllabus' definition of how bias can be detected during data-related reviews.

NEW QUESTION # 33

Consider a natural language processing (NLP) algorithm that attempts to predict the next word that you would like to type in a text message. An update to the algorithm has been created that should increase the accuracy of the predictions based on user typing patterns. The old algorithm was rated for accuracy by the users. Then, after the new update was released, the users rated the updated algorithm. A statistical test was used to compare between the two versions of the algorithm to see whether or not the update should remain in place.

This is an example of what type of testing?

- A. Pairwise testing
- B. Exploratory testing
- C. A/B testing
- D. Metamorphic testing

Answer: C

Explanation:

A/B testing is a statistical testing method that compares two different versions of a system to determine which one performs better. In this scenario, the old NLP algorithm was rated for accuracy, and after the update, the new algorithm was also rated by users. A statistical test was performed to compare the two versions, which is the fundamental approach of A/B testing.

A/B testing is commonly used in:

- * User experience testing (e.g., comparing different versions of a website).
- * ML model evaluation (e.g., comparing two AI-based classifiers).
- * Performance assessment (e.g., determining if a new recommendation algorithm is more effective).

This approach allows for data-driven decisions, ensuring that any changes to the system result in meaningful improvements.

* Section 9.4 - A/B Testing states that A/B testing is used to compare updates in AI-based systems to determine if the newer version is better.

Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 34

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

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

Answer: D

Explanation:

A deep neural network (DNN) is a type of artificial neural network that consists of multiple layers between the input and output layers. The ISTQB Certified Tester AI Testing (CT-AI) Syllabus outlines the following characteristics of a DNN:

* Structure of a Deep Neural Network:

* A DNN comprises at least three types of layers:

* Input layer: Receives the input data.

* Hidden layers: Perform complex feature extraction and transformations.

* Output layer: Produces the final prediction or classification.

* Analysis of Answer Choices:

* A (Only input and output layers) # Incorrect, as a DNN must have at least one hidden layer.

* B (At least one internal hidden layer) # Correct, as a neural network must have hidden layers to be considered deep.

* C (Minimum of five layers required) # Incorrect, as there is no strict definition that requires at least five layers.

* D (Output layer is not connected to other layers) # Incorrect, as the output layer must be connected to the hidden layers.

Thus, Option B is the correct answer, as a deep neural network must have at least one hidden layer.

Certified Tester AI Testing Study Guide References:

* ISTQB CT-AI Syllabus v1.0, Section 6.1 (Neural Networks and Deep Neural Networks)

* ISTQB CT-AI Syllabus v1.0, Section 6.2 (Structure of Deep Neural Networks).

NEW QUESTION # 35

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 cannot be used to detect the attack.

- D. EDA can detect and remove the false emails.

Answer: B

Explanation:

Exploratory Data Analysis (EDA) is an essential technique for examining datasets to uncover patterns, trends, and anomalies, including outliers. In this case, the attacker manipulates the spam filter by injecting emails with red flags and masking them as internal company emails. The primary goal of EDA here is to detect these adversarial modifications.

* Detecting Outliers:

* EDA techniques such as statistical analysis, clustering, and visualization can reveal patterns in email metadata (e.g., sender details, email content, frequency).

* Outlier detection methods like Z-score, IQR (Interquartile Range), or machine learning-based anomaly detection can identify emails that significantly deviate from typical internal communications.

* Identifying Distribution Shifts:

* By analyzing the frequency and characteristics of emails flagged as spam, testers can detect if the attack has introduced unusual patterns.

* If a surge of internal emails is suddenly classified as spam, EDA can help verify whether these classifications are consistent with historical data.

* Feature Analysis for Adversarial Patterns:

* EDA enables visualization techniques such as scatter plots or histograms to distinguish normal emails from manipulated ones.

* Examining email metadata (e.g., changes in headers, unusual wording in email bodies) can reveal adversarial tactics.

* Counteracting Adversarial Attacks:

* Once anomalies are identified, the spam filter's detection rules can be improved by retraining the model on corrected datasets.

* The adversarial examples can be added to the training data to enhance the robustness of the filter against future attacks.

* Exploratory Data Analysis (EDA) is used to detect outliers and adversarial attacks. "EDA is where data are examined for patterns, relationships, trends, and outliers. It involves the interactive, hypothesis-driven exploration of data."

* EDA can identify poisoned or manipulated data by detecting anomalies and distribution shifts.

"Testing to detect data poisoning is possible using EDA, as poisoned data may show up as outliers."

* EDA helps validate ML models and detect potential vulnerabilities. "The use of exploratory techniques, primarily driven by data visualization, can help validate the ML algorithm being used, identify changes that result in efficient models, and leverage domain expertise." References from ISTQB Certified Tester AI Testing Study Guide Thus, option A is the correct answer, as EDA is specifically useful for detecting outliers, which can help identify manipulated spam emails.

NEW QUESTION # 36

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