

ISTQB CT-AI Valid Real Exam, CT-AI Training Courses



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ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<ul style="list-style-type: none">• systems from those required for conventional systems.
Topic 5	<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 6	<ul style="list-style-type: none">• Introduction to AI: This exam section covers topics such as the AI effect and how it influences the definition of AI. It covers how to distinguish between narrow AI, general AI, and super AI; moreover, the topics covered include describing how standards apply to AI-based systems.

Topic 7	<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 8	<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.

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2026 ISTQB CT-AI: Certified Tester AI Testing Exam –Pass-Sure Valid Real Exam

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q62-Q67):

NEW QUESTION # 62

A bank wants to use an algorithm to determine which applicants should be given a loan. The bank hires a data scientist to construct a logistic regression model to predict whether the applicant will repay the loan or not.

The bank has enough data on past customers to randomly split the data into a training data set and a test

/validation data set. A logistic regression model is constructed on the training data set using the following independent variables:

Gender

Marital status

Number of dependents

Education

Income

Loan amount

Loan term

Credit score

The model reveals that those with higher credit scores and larger total incomes are more likely to repay their loans. The data scientist has suggested that there might be bias present in the model based on previous models created for other banks.

Given this information, what is the best test approach to check for potential bias in the model?

- A. Acceptance testing should be used to make sure the algorithm is suitable for the customer. The team can re-work the acceptance criteria such that the algorithm is sure to correctly predict the remaining applicants that have been set aside for the validation data set ensuring no bias is present.
- B. Experienced-based testing should be used to confirm that the training data set is operationally relevant. This can include applying exploratory data analysis (EDA) to check for bias within the training data set.
- C. A/B testing should be used to verify that the test data set does not detect any bias that might have been introduced by the original training data. If the two models significantly differ, it will indicate there is bias in the original model.
- D. Back-to-back testing should be used to compare the model created using the training data set to another model created using the test data set, if the two models significantly differ, it will indicate there is bias in the original model.

Answer: B

Explanation:

Bias in an AI system occurs when the training data contains inherent prejudices that cause the model to make unfair predictions. Experience-based testing, particularly Exploratory Data Analysis (EDA), helps uncover these biases by analyzing patterns, distributions, and potential discriminatory factors in the training data.

* Option A: "Experience-based testing should be used to confirm that the training data set is operationally relevant. This can include applying exploratory data analysis (EDA) to check for bias within the training data set."

* This is the correct answer. EDA involves examining the dataset for bias, inconsistencies, or missing values, ensuring fairness in ML model predictions.

* Option B: "Back-to-back testing should be used to compare the model created using the training data set to another model created

using the test data set. If the two models significantly differ, it will indicate there is bias in the original model."

* Back-to-back testing is used for regression testing and to compare versions of an AI system but is not primarily used to detect bias.

* Option C:"Acceptance testing should be used to make sure the algorithm is suitable for the customer.

The team can re-work the acceptance criteria such that the algorithm is sure to correctly predict the remaining applicants that have been set aside for the validation data set ensuring no bias is present."

* Acceptance testing focuses on meeting predefined business requirements rather than detecting and mitigating bias.

* Option D:"A/B testing should be used to verify that the test data set does not detect any bias that might have been introduced by the original training data. If the two models significantly differ, it will indicate there is bias in the original model."

* A/B testing is used for evaluating variations of a model rather than for explicitly identifying bias.

* Bias Testing Methods:"AI-based systems should be tested for algorithmic bias, sample bias, and inappropriate bias. Experience-based testing and EDA are useful for detecting bias".

* Exploratory Data Analysis (EDA):"EDA helps uncover potential bias in training data through visualization and statistical analysis". Analysis of the Answer Options:ISTQB CT-AI Syllabus References:Thus,Option A is the best choice for detecting bias in the loan applicant model.

NEW QUESTION # 63

Data used for an object detection ML system was found to have been labelled incorrectly in many cases.

Which ONE of the following options is most likely the reason for this problem?

SELECT ONE OPTION

- A. Security issues
- B. Privacy issues
- C. Bias issues
- D. Accuracy issues

Answer: D

Explanation:

The question refers to a problem where data used for an object detection ML system was labelled incorrectly. This issue is most closely related to "accuracy issues." Here's a detailed explanation:

Accuracy Issues: The primary goal of labeling data in machine learning is to ensure that the model can accurately learn and make predictions based on the given labels. Incorrectly labeled data directly impacts the model's accuracy, leading to poor performance because the model learns incorrect patterns.

Why Not Other Options:

Security Issues: This pertains to data breaches or unauthorized access, which is not relevant to the problem of incorrect data labeling.

Privacy Issues: This concerns the protection of personal data and is not related to the accuracy of data labeling.

Bias Issues: While bias in data can affect model performance, it specifically refers to systematic errors or prejudices in the data rather than outright incorrect labeling.

NEW QUESTION # 64

Which of the following aspects is a challenge when handling test data for an AI-based system?

- A. Video frame speed or aspect ratio
- B. Personal data or confidential data
- C. Output data or intermediate data
- D. Data frameworks or machine learning frameworks

Answer: B

Explanation:

Handling test data in AI-based systems presents numerous challenges, particularly in terms of data privacy and confidentiality. AI models often require vast amounts of training data, some of which may contain personal, sensitive, or confidential information. Ensuring compliance with data protection laws (e.g., GDPR, CCPA) and implementing secure data-handling practices is a major challenge in AI testing.

* Data Privacy Regulations

* AI-based systems frequently process personal data, such as images, names, and transaction details, leading to privacy concerns.

* Compliance with regulations such as GDPR (General Data Protection Regulation) and CCPA (California Consumer Privacy

Act) requires proper anonymization, encryption, or redaction of sensitive data before using it for testing.

* Data Security Challenges

* AI models may leak confidential information if proper security measures are not in place.

* Protecting training and test data from unauthorized access is crucial to maintaining trust and compliance.

* Legal and Ethical Considerations

* Organizations must obtain legal approval before using certain datasets, especially those containing health records, financial data, or personally identifiable information (PII).

* Testers may need to employ synthetic data or data masking techniques to minimize exposure risks.

* (B) Output data or intermediate data#

* While analyzing output data is important, it does not pose a significant challenge compared to handling personal or confidential test data.

* (C) Video frame speed or aspect ratio#

* These are technical challenges in processing AI models but do not fall under data privacy or ethical considerations.

* (D) Data frameworks or machine learning frameworks#

* Choosing an appropriate ML framework (e.g., TensorFlow, PyTorch) is important, but it is not a major challenge related to test data handling.

* Handling personal or confidential data is a critical challenge in AI testing. Personal or otherwise confidential data may need special techniques for sanitization, encryption, or redaction. Legal approval for use may also be required. Why is Option A Correct? Why Other Options are Incorrect? References from ISTQB Certified Tester AI Testing Study Guide Thus, option A is the correct answer, as data privacy and confidentiality are major challenges when handling test data for AI-based systems.

NEW QUESTION # 65

An engine manufacturing facility wants to apply machine learning to detect faulty bolts. Which of the following would result in bias in the model?

- A. Selecting training data by purposely including all known faulty conditions
- B. Selecting testing data from a different dataset than the training dataset
- C. Selecting testing data from a boat manufacturer's bolt longevity data
- D. Selecting training data by purposely excluding specific faulty conditions

Answer: D

Explanation:

Bias in AI models often originates from incomplete or non-representative training data. In this case, if the training dataset purposely excludes specific faulty conditions, the machine learning model will fail to learn and detect these conditions in real-world scenarios.

This results in:

- * Sample bias, where the training data is not fully representative of all possible faulty conditions.
- * Algorithmic bias, where the model prioritizes certain defect types while ignoring others.
- * B. Selecting training data by purposely including all known faulty conditions# This would help reduce bias by improving model generalization.
- * C. Selecting testing data from a different dataset than the training dataset# This is a good practice to evaluate model generalization but does not inherently introduce bias.
- * D. Selecting testing data from a boat manufacturer's bolt longevity data# While using unrelated data can create poor model accuracy, it does not directly introduce bias unless systematic patterns in the incorrect dataset lead to unfair decision-making.

* Section 8.3 - Testing for Algorithmic, Sample, and Inappropriate Bias states that sample bias can occur if the training dataset is not fully representative of the expected data space, leading to biased predictions.

Why are the other options incorrect? Reference from ISTQB Certified Tester AI Testing Study Guide:

NEW QUESTION # 66

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:

A major risk when using pre-trained neural networks 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 # 67

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