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## ISTQB CT-AI Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • 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 2 | • 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 3 | • 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 | • Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing. |
|---|---|
| Topic 5 | • ML Functional Performance Metrics: In this section, the topics covered include how to calculate the ML functional performance metrics from a given set of confusion matrices. |
| Topic 6 | • Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based |
| Topic 7 | • 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 8 | • 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 9 | • 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. |

# ISTQB Certified Tester AI Testing Exam Sample Questions (Q108-Q113):

**NEW QUESTION # 108**
Which of the following options is an example of the concept of overfitting?
Choose ONE option (1 out of 4)

- A. A model for predicting IT system failures delivers too many false-negative predictions because the failures cannot be adequately explained via the log files used for training.
- B. A model for the recognition of dogs was trained predominantly with pictures of dogs in parks. On pictures with other animals in parks, dogs are also falsely recognized.
- C. A previously trained model for recognizing cars is adapted and extended so that it can also identify the make of the car beyond its original function.
- D. A model for predicting academic performance was trained with data from students at one university.
  The model shows low predictive accuracy when applied to other universities.

**Answer: D**

Explanation:
The ISTQB CT-AI syllabus definesoverfittingin Section3.2 - ML Model Evaluationas a condition where an ML model learns the training data too precisely-including noise and irrelevant detail-resulting in poor performance on unseen data. Overfitting is characterized byhigh accuracy on training data but low accuracy on validation or real-world data. OptionAperfectly matches this definition: a model trained only on one university's student data generalizes poorly to students from other universities. This is a textbook example of overfitting because the model has essentially memorized patterns unique to a narrow dataset, instead of learning generalizable relationships applicable across environments .
Option B instead describessample biasor inadequate training diversity, not overfitting. Option C involves transfer learningor model extension, unrelated to overfitting. Option D indicatesinsufficient training data qualityor lack of meaningful features, but not overfitting. Only Option A reflects the syllabus definition directly: overly specialized training leading to reduced predictive performance on new data.
Thus,Ais the correct and syllabus-aligned example of overfitting.

**NEW QUESTION # 109**
Which statement about testing levels for AI-based systems is correct?
Choose ONE option (1 out of 4)

- A. ML model testing ensures that the relevant ML functional performance criteria are met

- B. Input data testing checks whether the inputs from the data pipeline are received by the model correctly and exchanged with all system components
- C. If AI is offered as a service, system testing includes API tests of the service
- D. Acceptance testing checks non-functional requirements such as explainability

**Answer: A**

Explanation:
Section4.3 - Test Levels for AI Systemsclearly defines ML model testing as the level at which testers evaluate whether an ML model fulfills itsfunctional performance criteria, including accuracy, precision, recall, F1, robustness, stability, and fairness. Therefore, Option C is the correct and syllabus-aligned statement.
Option A is incorrect because input data testing focuses onvalidity and correctness of data entering the model, not interactions with all system components. Option B is incorrect: acceptance testing in the syllabus focuses primarily onbusiness and stakeholder requirements, not specifically explainability. Explainability testing may occur at multiple levels depending on context. Option D is also incorrect because API testing belongs tointegration testing, not system testing, even when AI is consumed as a service.
Thus,Option Cis the only statement that precisely matches syllabus definitions.

## NEW QUESTION # 110
Which of the following decisions is BEST as a test approach for the described situation?
Choose ONE option (1 out of 4)

- A. You execute the test cases from the old camera model at the integration test level; no further dynamic tests of the operating data pipeline are necessary.
- B. You plan to manually execute regular regression tests of the new camera function, particularly for system tests.
- C. You plan to perform reviews and exploratory data analysis of the image data sets to reduce the risk of a lack of representativeness of this data.
- D. You plan experience-based testing by the entire team at the system test level to ensure that the end users are satisfied.

**Answer: D**

Explanation:
The ISTQB CT-AI syllabus emphasizes that testing AI-based systems requirescross-functional collaboration andexperience-based testingwhen parts of the team lack domain knowledge. In this scenario, the ML expert understands ML and dataset preparation but lacks knowledge ofcamera system behavior, the device's operational data pipeline, and end-user workflows. The remainder of the team understands the domain and system testing but not ML. Section4.4 - Human Factors and AI Testingand4.3 - System Testing of AI Componentshighlight that when domain understanding is unevenly distributed,experience-based testing conducted by the full team(testers, developers, domain experts) is the most effective approach. This ensures that AI outputs align with actual user expectations and system behavior. OptionCaligns exactly with this principle.
Option A is too limited and does not address the need to validate ML integration. Option B is incorrect because reusing old test cases overlooks AI-specific risks in the operating data pipeline. Option D is useful but focuses only on data representativeness, not system-level user validation. Therefore,Option Cis the best, syllabus-aligned test approach.

## NEW QUESTION # 111
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. Automation/Complacency
- B. Complacency/Disregard
- C. Ignorance/Cognitive
- D. Geographical/Locality

**Answer: A**

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.

**NEW QUESTION # 112**

In a certain coffee producing region of Colombia, there have been some severe weather storms, resulting in massive losses in production. This caused a massive drop in stock price of coffee.

Which ONE of the following types of testing SHOULD be performed for a machine learning model for stock-price prediction to detect influence of such phenomenon as above on price of coffee stock.

SELECT ONE OPTION

- A. Testing for security
- B. Testing for accuracy
- C. Testing for concept drift
- D. Testing for bias

**Answer: C**

Explanation:

* Type of Testing for Stock-Price Prediction Models: Concept drift refers to the change in the statistical properties of the target variable over time. Severe weather storms causing massive losses in coffee production and affecting stock prices would require testing for concept drift to ensure that the model adapts to new patterns in data over time.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Section 7.6 Testing for Concept Drift, which explains the need to test for concept drift in models that might be affected by changing external factors.

**NEW QUESTION # 113**

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