

Accurate CT-AI Test | Test CT-AI Dates

Table 1 | Demographics and CT vendor distributions in simulated and prospective test sets

	Simulated Test Set Mean (SD) / N (%)	Prospective Test Set Mean (SD) / N (%)	External Test Set Mean (SD) / N (%)
Total CT scans	14,039	6351	480
Age	54 (13.1)	59 (16.9)	57 (19.0)
Female	6767 (48.2%)	3000 (47.2%)	204 (42.5%)
CT Vendors			
Philips Brilliance 64	1123 (8.0%)		
Siemens Somatom definition	1502 (10.7%)		
Siemens Somatom definition Flash	772 (5.5%)	524 (8.3%)	8 (1.7%)
Siemens Somatom definition AS	624 (4.4%)	2772 (43.6%)	
GE LightSpeed VCT	2204 (15.7%)	1479 (23.3%)	33 (6.9%)
GE Revolution Frontier		1576 (24.8%)	193 (40.2%)
GE Discovery			99 (20.6%)
Toshiba Aquilion ONE			136 (28.3%)
Pneumoperitoneum	139 (1.0%)	82 (1.3%)	80 (16.7%)

Table 2 | Performance of PACT-3D in test set

Performance Metrics	Simulated Test Set value (95% CI)	Prospective Test Set value (95% CI)	External Test Set value (95% CI)
Sensitivity	0.81 (0.75-0.86)	0.83 (0.77-0.90)	0.81 (0.75-0.88)
Specificity	0.99 (0.98-1.0)	0.99 (0.98-0.99)	0.97 (0.94-0.98)
PPV	0.41 (0.34-0.48)	0.44 (0.37-0.52)	0.79 (0.69-0.87)
F1-score	0.54 (0.47-0.61)	0.58 (0.51-0.65)	0.80 (0.74-0.86)
Sensitivity in etiology			
Gastro-duodenal	0.93 (0.82-0.98)	0.87 (0.73-0.94)	
Small Bowel	1.0 (0.87-1.0)	0.88 (0.63-0.98)	
Large Intestine	0.64 (0.41-0.77)	0.73 (0.50-0.89)	
Trauma	1.0 (0.57-1.0)	0.83 (0.45-0.97)	
Post-operative	0.59 (0.33-0.84)	0.8 (0.55-0.93)	
Sensitivity in total volume of free air			
Total volume > 1 ml	0.89 (0.84-0.93)	0.91 (0.86-0.95)	0.86 (0.75-0.93)
Total volume > 10 ml	0.95 (0.90-0.98)	0.98 (0.93-1.0)	0.92 (0.80-0.97)

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ISTQB CT-AI Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Testing AI-Based Systems	20%	- Test Levels for AI-Based Systems - Bias and Fairness Considerations - Testing AI-Specific Quality Characteristics - Challenges in Testing AI-Based Systems
Topic 2: Basics of AI	8%	- Data Concepts (Training, Validation, Test Data) - Definitions and Terminology - AI Types and Techniques - Machine Learning Types (Supervised, Unsupervised, Reinforcement)
Topic 3: Testing AI-Specific Quality Characteristics	20%	- Robustness Testing - Fairness and Bias Detection - Explainability and Interpretability - Accuracy, Precision, Recall, F1-Score
Topic 4: AI Test Methods and Techniques	20%	- Black-Box Testing for AI Systems - Metamorphic Testing - Test Oracle Techniques for AI - Adversarial Testing
Topic 5: Practical Considerations	12%	- Test Data Quality and Preparation - Automation in AI Testing - Documentation and Reporting - Test Environment Setup for AI
Topic 6: Neural Networks and Deep Learning	20%	- Neural Network Architecture Basics - Model Training and Evaluation Metrics - Overfitting and Underfitting - Testing Deep Learning Models

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q88-Q93):

NEW QUESTION # 88

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

Answer: A

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.

References: This explanation is consistent with the concepts covered in the ISTQB CT-AI syllabus under dataset quality issues and their impact on machine learning models.

NEW QUESTION # 89

Which ONE of the following tests is MOST likely to describe a useful test to help detect different kinds of biases in ML pipeline?

SELECT ONE OPTION

- **A. Test the model during model evaluation for data bias.**
- B. Testing the data pipeline for any sources for algorithmic bias.
- C. Testing the distribution shift in the training data for inappropriate bias.
- D. Check the input test data for potential sample bias.

Answer: A

Explanation:

Detecting biases in the ML pipeline involves various tests to ensure fairness and accuracy throughout the ML process.

* Testing the distribution shift in the training data for inappropriate bias (A): This involves checking if there is any shift in the data distribution that could lead to bias in the model. It is an important test but not the most direct method for detecting biases.

* Test the model during model evaluation for data bias (B): This is a critical stage where the model is evaluated to detect any biases in the data it was trained on. It directly addresses potential data biases in the model.

* Testing the data pipeline for any sources for algorithmic bias (C): This test is crucial as it helps identify biases that may originate from the data processing and transformation stages within the pipeline. Detecting sources of algorithmic bias ensures that the model does not inherit biases from these processes.

* Check the input test data for potential sample bias (D): While this is an important step, it focuses more on the input data and less on the overall data pipeline.

Hence, the most likely useful test to help detect different kinds of biases in the ML pipeline is B. Test the model during model evaluation for data bias.

References:

* ISTQB CT-AI Syllabus Section 8.3 on Testing for Algorithmic, Sample, and Inappropriate Bias discusses various tests that can be performed to detect biases at different stages of the ML pipeline.

* Sample Exam Questions document, Question #32 highlights the importance of evaluating the model for biases.

NEW QUESTION # 90

Which ONE of the following models BEST describes a way to model defect prediction by looking at the history of bugs in modules by using code quality metrics of modules of historical versions as input?

SELECT ONE OPTION

- A. Clustering of similar code modules to predict based on similarity.
- B. Identifying the relationship between developers and the modules developed by them.
- C. Search of similar code based on natural language processing.
- **D. Using a classification model to predict the presence of a defect by using code quality metrics as the input data.**

Answer: D

Explanation:

Defect prediction models aim to identify parts of the software that are likely to contain defects by analyzing historical data and code quality metrics. The primary goal is to use this predictive information to allocate testing and maintenance resources effectively. Let's break down why option D is the correct choice:

Understanding Classification Models:

Classification models are a type of supervised learning algorithm used to categorize or classify data into predefined classes or labels. In the context of defect prediction, the classification model would classify parts of the code as either "defective" or "non-defective" based on the input features.

Input Data - Code Quality Metrics:

The input data for these classification models typically includes various code quality metrics such as cyclomatic complexity, lines of code, number of methods, depth of inheritance, coupling between objects, etc. These metrics help the model learn patterns associated with defects.

Historical Data:

Historical versions of the code along with their defect records provide the labeled data needed for training the classification model. By analyzing this historical data, the model can learn which metrics are indicative of defects.

Why Option D is Correct:

Option D specifies using a classification model to predict the presence of defects by using code quality metrics as input data. This accurately describes the process of defect prediction using historical bug data and quality metrics.

Eliminating Other Options:

A . Identifying the relationship between developers and the modules developed by them: This does not directly involve predicting defects based on code quality metrics and historical data.

B . Search of similar code based on natural language processing: While useful for other purposes, this method does not describe defect prediction using classification models and code metrics.

C . Clustering of similar code modules to predict based on similarity: Clustering is an unsupervised learning technique and does not directly align with the supervised learning approach typically used in defect prediction models.

Reference:

ISTQB CT-AI Syllabus, Section 9.5, Metamorphic Testing (MT), describes various testing techniques including classification models for defect prediction.

"Using AI for Defect Prediction" (ISTQB CT-AI Syllabus, Section 11.5.1).

NEW QUESTION # 91

You have access to the training data that was used to train an AI-based system. You can review this information and use it as a guideline when creating your tests. What type of characteristic is this?

- A. Accessibility
- **B. Transparency**
- C. Explorability
- D. Autonomy

Answer: B

Explanation:

AI-based systems can sometimes behave like black boxes, where the internal decision-making process is unclear. Transparency refers to the ability to inspect and understand the training data, algorithms, and decision-making process of the AI system. Transparency ensures that testers and stakeholders can review how an AI system was trained.

Access to training data is a key factor in transparency because it allows testers to analyze biases, completeness, and representativeness of the dataset.

Transparency is an essential characteristic of explainable AI (XAI). Having access to training data means that testers can investigate how data influences AI behavior.

Regulatory and ethical AI guidelines emphasize transparency. Many AI ethics frameworks, such as GDPR and Trustworthy AI guidelines, recommend transparency to ensure fair and explainable AI decision-making.

NEW QUESTION # 92

A data scientist is performing unsupervised learning on a set of financial records relating to previous loan applications, and trying to predict defaults on future loans. They are reporting poor functional performance because of data issues. Which ONE of the below is LEAST likely to be a contributory factor?

- A. Missing data relating to whether loans were previously granted and repaid
- B. Inconsistent pre-processing of some records
- C. Irrelevant data included in the account records
- D. Missing records for some accounts

Answer: A

Explanation:

The correct answer is B. In unsupervised learning, the ML model is created from unlabeled data. The algorithm infers patterns in the input data and assigns inputs to groups or classes based on commonalities, rather than learning from known output labels. The CT-AI syllabus identifies clustering and association as the main unsupervised learning problem types.

Missing information about whether previous loans were granted and repaid is essentially missing outcome label information. That would be highly relevant for supervised learning, where the model learns from input data and corresponding labels, but it is least directly relevant to an unsupervised approach. By contrast, options A, C, and D are classic dataset quality issues. Missing account records indicate incomplete data; inconsistent pre-processing can create data-format and comparability defects; and irrelevant account information may adversely influence results or waste modelling resources. The syllabus explicitly lists incomplete data, data not pre-processed, and irrelevant data as typical dataset quality issues affecting ML models.

References/topics: CT-AI Syllabus Chapter 3, Section 3.1.2 "Unsupervised Learning"; Chapter 4, Section 4.3 "Dataset Quality Issues"; Chapter 4, Section 4.4 "Data Quality and its Effect on the ML Model."

NEW QUESTION # 93

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