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ISTQB Certified Tester AI Testing Exam Sample Questions (Q81-Q86):

NEW QUESTION # 81

A company producing consumable goods wants to identify groups of people with similar tastes for the purpose of targeting different products for each group. You have to choose and apply an appropriate ML type for this problem

Which ONE of the following options represents the BEST possible solution for this above-mentioned task?

SELECT ONE OPTION

- A. Association
- B. Regression
- C. Classification
- D. **Clustering**

Answer: D

Explanation:

A . Regression

Regression is used to predict a continuous value and is not suitable for grouping people based on similar tastes.

B . Association

Association is used to find relationships between variables in large datasets, often in the form of rules (e.g., market basket analysis). It does not directly group individuals but identifies patterns of co-occurrence.

C . Clustering

Clustering is an unsupervised learning method used to group similar data points based on their features. It is ideal for identifying groups of people with similar tastes without prior knowledge of the group labels. This technique will help the company segment its customer base effectively.

D . Classification

Classification is a supervised learning method used to categorize data points into predefined classes. It requires labeled data for training, which is not the case here as we want to identify groups without predefined labels.

Therefore, the correct answer is C because clustering is the most suitable method for grouping people with similar tastes for targeted product marketing.

NEW QUESTION # 82

Which ONE of the following statements correctly describes the importance of flexibility for AI systems?

SELECT ONE OPTION

- A. Flexible AI systems allow for easier modification of the system as a whole.
- B. AI systems are inherently flexible.
- C. AI systems require changing of operational environments; therefore, flexibility is required.
- D. Self-learning systems are expected to deal with new situations without explicitly having to program for it.

Answer: A

Explanation:

Flexibility in AI systems is crucial for various reasons, particularly because it allows for easier modification and adaptation of the system as a whole.

* AI systems are inherently flexible (A): This statement is not correct. While some AI systems may be designed to be flexible, they are not inherently flexible by nature. Flexibility depends on the system's design and implementation.

* AI systems require changing operational environments; therefore, flexibility is required (B):

While it's true that AI systems may need to operate in changing environments, this statement does not directly address the importance of flexibility for the modification of the system

* Flexible AI systems allow for easier modification of the system as a whole (C): This statement correctly describes the importance of flexibility. Being able to modify AI systems easily is critical for their maintenance, adaptation to new requirements, and improvement.

* Self-learning systems are expected to deal with new situations without explicitly having to program for it (D): This statement relates to the adaptability of self-learning systems rather than their overall flexibility for modification.

Hence, the correct answer is C. Flexible AI systems allow for easier modification of the system as a whole.

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ISTQB CT-AI Syllabus Section 2.1 on Flexibility and Adaptability discusses the importance of flexibility in AI systems and how it enables easier modification and adaptability to new situations.

Sample Exam Questions document, Question #30 highlights the importance of flexibility in AI systems.

NEW QUESTION # 83

Which of the following statements about the structure and function of neural networks is true?

Choose ONE option (1 out of 4)

- A. The bias of a neuron is determined by the activation values of the neurons in the previous layer
- B. The input layer of a deep neural network must have at least as many neurons as its output layer
- C. Training a neural network only changes the values of the weights at the connections between neurons
- D. A single-layer perceptron is NOT a neural network

Answer: C

Explanation:

Section 1.7 - Neural Networks of the ISTQB CT-AI syllabus explains that neural networks consist of neurons connected by weighted links. During training, learning occurs by adjusting the weights on these connections. This is the essence of gradient descent and backpropagation. Option B correctly states this behavior: only the weights are modified, not the activation functions, neuron

counts, or architectural structure.

Option A is incorrect because a neuron's bias is not determined by previous activations; it is an independent trainable parameter added to the weighted input sum. Option C is incorrect because the syllabus states that a single-layer perceptron is a valid type of neural network, although limited to linearly separable problems.

Option D is incorrect because no rule requires the number of input neurons to exceed or equal the number of output neurons. Instead, input neurons correspond to the number of features, while output neurons correspond to tasks or classes. Therefore, Option B precisely reflects the syllabus definition of what changes during neural network training.

NEW QUESTION # 84

Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?

SELECT ONE OPTION

- A. Testing the accuracy of the classification model.
- B. Testing the speed of the prediction by the model.
- C. Testing the API of the service powered by the ML model.
- D. Testing the speed of the training of the model.

Answer: D

Explanation:

The question asks which test is least likely to be performed during the ML model testing phase. Let's consider each option:

Testing the accuracy of the classification model (A): Accuracy testing is a fundamental part of the ML model testing phase. It ensures that the model correctly classifies the data as intended and meets the required performance metrics.

Testing the API of the service powered by the ML model (B): Testing the API is crucial, especially if the ML model is deployed as part of a service. This ensures that the service integrates well with other systems and that the API performs as expected.

Testing the speed of the training of the model (C): This is least likely to be part of the ML model testing phase. The speed of training is more relevant during the development phase when optimizing and tuning the model. During testing, the focus is more on the model's performance and behavior rather than how quickly it was trained.

Testing the speed of the prediction by the model (D): Testing the speed of prediction is important to ensure that the model meets performance requirements in a production environment, especially for real-time applications.

Reference:

ISTQB CT-AI Syllabus Section 3.2 on ML Workflow and Section 5 on ML Functional Performance Metrics discuss the focus of testing during the model testing phase, which includes accuracy and prediction speed but not the training speed.

NEW QUESTION # 85

Consider a machine learning model where the model is attempting to predict if a patient is at risk for stroke.

The model collects information on each patient regarding their blood pressure, red blood cell count, smoking status, history of heart disease, cholesterol level, and demographics. Then, using a decision tree the model predicts whether or not the associated patient is likely to have a stroke in the near future. Once the model is created using a training data set, it is used to predict a stroke in 80 additional patients. The table below shows a confusion matrix on whether or not the model made a correct or incorrect prediction. The testers have calculated what they believe to be an appropriate functional performance metric for the model. They calculated a value of 2/3 or 0.6667.

- A. Precision
- B. Recall
- C. F1 -score
- D. Accuracy

Answer: D

Explanation:

The problem describes a classification model that predicts whether a patient is at risk for a stroke. The confusion matrix is provided, and the testers have calculated a performance metric as 2/3 or 0.6667.

From the ISTQB Certified Tester AI Testing (CT-AI) Syllabus, the definitions of functional performance metrics from a confusion matrix include:

* Accuracy:

$$\text{Accuracy} = \frac{\text{TP} + \text{TN}}{\text{TP} + \text{TN} + \text{FP} + \text{FN}}$$

$$\text{Accuracy} = \frac{\text{TP} + \text{TN}}{\text{TP} + \text{TN} + \text{FP} + \text{FN}}$$

* Measures the proportion of correctly classified instances (both true positives and true negatives) over the total dataset.

* If the value is 0.6667, it suggests that the metric includes both correct positive and negative classifications, aligning with accuracy.

* Precision:

Precision = $\frac{TP}{TP+FP}$ Precision = $\frac{TP}{TP+FP}$

* Measures how many predicted positive cases were actually positive.

* Does not match the given calculation.

* Recall (Sensitivity):

Recall = $\frac{TP}{TP+FN}$ Recall = $\frac{TP}{TP+FN}$

* Measures how many actual positives were correctly identified.

* Does not match the 0.6667 value.

* F1-Score:

$F1 = 2 \times \frac{Precision \times Recall}{Precision + Recall}$

$F1 = 2 \times \frac{Precision \times Recall}{Precision + Recall}$

* A balance between precision and recall.

* The formula is different from the provided calculation.

Since the formula for accuracy matches the calculated value of 0.6667, the best answer is D. Accuracy.

Certified Tester AI Testing Study Guide References:

* ISTQB CT-AI Syllabus v1.0, Section 5.1 (Confusion Matrix and Functional Performance Metrics)

* ISTQB CT-AI Syllabus v1.0, Section 5.4 (Selecting ML Functional Performance Metrics)

NEW QUESTION # 86

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Imagine a Java method that instantiates an array of large objects, A large population CT-AI of uninsured users of the system are receiving health care at public expense, but they depress the statistics because they receive less preventive care.

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