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## ISTQB Certified Tester AI Testing Exam Sample Questions (Q43-Q48):

### NEW QUESTION # 43

Which of the below is NOT a characteristic that makes it difficult to use AI-based systems?

- A. Lack of standards
- **B. Lack of robustness**
- C. Lack of transparency
- D. Complexity

**Answer: B**

Explanation:

While AI-based systems can face issues with complexity, lack of standards, and lack of transparency, the lack of robustness is not typically a characteristic that makes AI systems difficult to use. In fact, many AI systems can be designed to be robust, but their complexity, lack of transparency, and the absence of established standards can pose challenges in their implementation and adoption.

### NEW QUESTION # 44

A software component uses machine learning to recognize the digits from a scan of handwritten numbers. In the scenario above, which type of Machine Learning (ML) is this an example of?

SELECT ONE OPTION

- **A. Classification**
- B. Reinforcement learning
- C. Regression
- D. Clustering

**Answer: A**

Explanation:

Recognizing digits from a scan of handwritten numbers using machine learning is an example of classification. Here's a breakdown:  
Classification: This type of machine learning involves categorizing input data into predefined classes. In this scenario, the input data (handwritten digits) are classified into one of the 10 digit classes (0-9).

Why Not Other Options:

Reinforcement Learning: This involves learning by interacting with an environment to achieve a goal, which does not fit the problem of recognizing digits.

Regression: This is used for predicting continuous values, not discrete categories like digit recognition.

Clustering: This involves grouping similar data points together without predefined classes, which is not the case here.

### NEW QUESTION # 45

An e-commerce developer built an application for automatic classification of online products in order to allow customers to select products faster. The goal is to provide more relevant products to the user based on prior purchases.

Which of the following factors is necessary for a supervised machine learning algorithm to be successful?

- A. Minimizing the amount of time spent training the algorithm
- B. Selecting the correct data pipeline for the ML training
- **C. Labeling the data correctly**
- D. Grouping similar products together before feeding them into the algorithm

**Answer: C**

Explanation:

Supervised machine learning requires correctly labeled data to train an effective model. The learning process relies on input-output mappings where each training example consists of an input (features) and a correctly labeled output (target variable). Incorrect labeling can significantly degrade model performance.

\* Supervised Learning Process

\* The algorithm learns from labeled data, mapping inputs to correct outputs during training.

\* If labels are incorrect, the model will learn incorrect relationships and produce unreliable predictions.

- \* Quality of Training Data
- \* The accuracy of any supervised ML model is highly dependent on the quality of labels.
- \* Poorly labeled data leads to mislabeled training sets, resulting in biased or underperforming models.
- \* Error Minimization and Model Accuracy
- \* Incorrectly labeled data affects the confusion matrix, reducing precision, recall, and accuracy.
- \* It leads to overfitting or underfitting, which decreases the model's ability to generalize.
- \* Industry Standard Practices
- \* Many AI development teams spend a significant amount of time on data annotation and quality control to ensure high-quality labeled datasets.
- \* (B) Minimizing the amount of time spent training the algorithm (Incorrect)
- \* While reducing training time is important for efficiency, the quality of training is more critical. A well-trained model takes time to process large datasets and optimize its parameters.
- \* (C) Selecting the correct data pipeline for the ML training (Incorrect)
- \* A good data pipeline helps, but it does not directly impact learning success as much as labeling does. Even a well-optimized pipeline cannot fix incorrect labels.
- \* (D) Grouping similar products together before feeding them into the algorithm (Incorrect)
- \* This describes clustering, which is an unsupervised learning technique. Supervised learning requires labeled examples, not just grouping of data.
- \* Labeled data is necessary for supervised learning. "For supervised learning, it is necessary to have properly labeled data."
- \* Data labeling errors can impact performance. "Supervised learning assumes that the data is correctly labeled by the data annotators. However, it is rare in practice for all items in a dataset to be labeled correctly." Why Labeling is Critical? Why Other Options are Incorrect? References from ISTQB Certified Tester AI Testing Study Guide Thus, option A is the correct answer, as correctly labeled data is essential for supervised machine learning success.

#### NEW QUESTION # 46

Which of the following is an example of an input change where it would be expected that the AI system should be able to adapt?

- A. It has been trained to recognize human faces at a particular resolution and it is given a human face image captured with a higher resolution.
- B. It has been trained to analyze mathematical models and is given a set of landscape pictures to classify.
- C. It has been trained to recognize cats and is given an image of a dog.
- D. It has been trained to analyze customer buying trend data and is given information on supplier cost data.

**Answer: A**

Explanation:

AI systems, particularly machine learning models, need to exhibit adaptability and flexibility to handle slight variations in input data without requiring retraining. The ISTQB CT-AI syllabus outlines adaptability as a crucial feature of AI systems, especially when the system is exposed to variations in its operational environment.

\* Option A: "It has been trained to recognize cats and is given an image of a dog."

\* This scenario introduces an entirely new class (dogs), which is outside the AI system's expected scope. If the AI was only trained to recognize cats, it would not be expected to recognize dogs correctly without retraining. This does not demonstrate adaptability as expected from an AI system.

\* Option B: "It has been trained to recognize human faces at a particular resolution and it is given a human face image captured with a higher resolution."

\* This is an example of an AI system encountering a variation of its training data rather than entirely new data. Most AI-based image processing models can adapt to different resolutions by applying downsampling or other pre-processing techniques. Since the data remains within the domain of human faces, the model should be able to process the higher-resolution image without significant issues.

\* Option C: "It has been trained to analyze mathematical models and is given a set of landscape pictures to classify."

\* This represents a complete shift in the data type from structured numerical data to unstructured image data. The AI system is unlikely to adapt effectively, as it has not been trained on image classification tasks.

\* Option D: "It has been trained to analyze customer buying trend data and is given information on supplier cost data."

\* This introduces a significant domain shift. Customer buying trends focus on consumer behavior, while supplier cost data relates to pricing structures and logistics. The AI system would likely require retraining to process the new data meaningfully.

\* Adaptability Requirements: The syllabus discusses that AI-based systems must be able to adapt to changes in their operational environment and constraints, including minor variations in input quality (such as resolution changes).

\* Autonomous Learning & Evolution: AI systems are expected to improve and handle evolving inputs based on prior experience.

\* Challenges in Testing Self-Learning Systems: AI systems should be tested to ensure they function correctly when encountering new but related data, such as different resolutions of the same object.

Analysis of the Answer Options: ISTQB CT-AI Syllabus References: Thus, option B is the best choice as it aligns with the adaptability

characteristics expected from AI-based systems.

#### NEW QUESTION # 47

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. A single-layer perceptron is NOT a neural network
- C. The input layer of a deep neural network must have at least as many neurons as its output layer
- **D. Training a neural network only changes the values of the weights at the connections between neurons**

**Answer: D**

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 # 48

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