CT-AI최신덤프자료최신인증시험자료

참고: PassTIP에서 Google Drive로 공유하는 무료 2025 ISTQB CT-AI 시험 문제집이 있습니다: https://drive.google.com/open?id=19GSFEiNY-z1_IRGcPnr2-3viLHYofpdX

Demo를 다운받아ISTQB CT-AI덤프의 일부분 문제를 체험해보시고 구매하셔도 됩니다. 저희 PassTIP에서는ISTQB CT-AI덤프의 일부분 문제를 샘플로 제공해드립니다. 덤프만 열공하시면ISTQB CT-AI시험패스가 가능하기에 저희 자료를 선택한걸 후회하지 않게 할 자신이 있습니다.

PassTIP의 제품들은 모두 우리만의 거대한IT업계엘리트들로 이루어진 그룹 즉 관련업계에서 권위가 있는 전문가들이 자기만의 지식과 지금까지의 경험으로 최고의 IT인증관련자료를 만들어냅니다. PassTIP의 문제와 답은 정확도 적중률이 아주 높습니다. 우리의 덤프로 완벽한ISTQB인증CT-AI시험대비를 하시면 되겠습니다. 이렇게 어려운 시험은 우리ISTQB인증CT-AI덤프로 여러분의 고민과 꿈을 한방에 해결해드립니다.

>> CT-AI최신 덤프자료 <<

CT-AI인증덤프문제 & CT-AI시험패스 가능 덤프문제

PassTIP는 여러분이 빠른 시일 내에ISTQB CT-AI인증시험을 효과적으로 터득할 수 있는 사이트입니다.ISTQB CT-AI인증 자격증은 일상생활에 많은 개변을 가져올 수 있는 시험입니다.ISTQB CT-AI인증 자격증을 소지한 자들은 당연히 없는 자들보다 연봉이 더 높을 거고 승진기회도 많아지며 IT업계에서의 발전도 무궁무진합니다.

ISTQB CT-AI 시험요강:

주제	소개
주제 1	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
주제 2	• 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.
주제 3	• 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.
주제 4	• 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.
주제 5	• 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.
주제 6	• 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.
주제 7	• 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.

최신 ISTQB AI Testing CT-AI 무료샘플문제 (Q106-Q111):

질문 # 106
Which of the following is a technique used in machine learning?

- A. Equivalence partitioning
- B. Decision trees
- C. Decision tables
- D. Boundary value analysis

정답：B

설명:
Decision trees are a foundational algorithm used in supervised machine learning. The syllabus describes:
"A decision tree is a tree-like ML model whose nodes represent decisions and whose branches represent possible outcomes."
(Reference: ISTQB CT-AI Syllabus v1.0, Section 3.4)

질문 # 107
Which of the following problems would best be solved using the supervised learning category of regression?

- A. Determining the optimal age for a chicken's egg laying production using input data of the chicken's age and average daily egg production for one million chickens.
- B. Determining if an animal is a pig or a cow based on image recognition.
- C. Predicting shopper purchasing behavior based on the category of shopper and the positioning of promotional displays within a store.
- D. Recognizing a knife in carry on luggage at a security checkpoint in an airport scanner.

정답：A

설명:
Understanding Supervised Learning - RegressionSupervised learning is a category of machine learning where the model is trained on

labeled data. Within this category,regressionis used when the goal is to predict a continuous numeric value.
* Regressiondeals with problems where the output variable is continuous in nature, meaning it can take any numerical value within a range.
* Common examples include predicting prices, estimating demand, and analyzing production trends.
* (A) Determining the optimal age for a chicken's egg-laying production using input data of the chicken's age and average daily egg production for one million chickens.#(Correct)
* This is a classicregression problembecause it involves predicting a continuous variable:daily egg productionbased on the input variablechicken's age.
* The goal is to find a numerical relationship between age and egg production, which makesregression the appropriate supervised learning method.
* (B) Recognizing a knife in carry-on luggage at a security checkpoint in an airport scanner.#(Incorrect)
* This is animage recognition task, which falls underclassification, not regression.
* Classification problems involve assigning inputs to discrete categories (e.g., "knife detected" or "no knife detected").
* (C) Determining if an animal is a pig or a cow based on image recognition.#(Incorrect)
* This is anotherclassification problemwhere the goal is to categorize an image into one of two labels (pig or cow).
* (D) Predicting shopper purchasing behavior based on the category of shopper and the positioning of promotional displays within a store.#(Incorrect)
* This problem could involve a mix ofclassificationandassociation rule learning, but it does not explicitly predict a continuous variable in the way regression does.
* Regression is used when predicting a numeric output."Predicting the age of a person based on input data about their habits or predicting the future prices of stocks are examples of problems that use regression."
* Supervised learning problems are divided into classification and regression."If the output is numeric and continuous in nature, it may be regression."
* Regression is commonly used for predicting numerical trends over time."Regression models result in a numerical or continuous output value for a given input." Analysis of Answer ChoicesReferences from ISTQB Certified Tester AI Testing Study GuideThus,option A is the correct answer, as it aligns with the principles of regression-based supervised learning.

질문 # 108
The activation value output for a neuron in a neural network is obtained by applying computation to the neuron.
Which ONE of the following options BEST describes the inputs used to compute the activation value?
SELECT ONE OPTION

- A. Individual bias at the neuron level, and activation values of neurons in the previous layer.
- B. Individual bias at the neuron level, activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.
- C. Individual bias at the neuron level, and weights assigned to the connections between the neurons.
- D. Activation values of neurons in the previous layer, and weights assigned to the connections between the neurons.

정답：B

설명:
In a neural network, the activation value of a neuron is determined by a combination of inputs from the previous layer, the weights of the connections, and the bias at the neuron level. Here's a detailed breakdown:
* Inputs for Activation Value:
* Activation Values of Neurons in the Previous Layer:These are the outputs from neurons in the preceding layer that serve as inputs to the current neuron.
* Weights Assigned to the Connections:Each connection between neurons has an associated weight, which determines the strength and direction of the input signal.
* Individual Bias at the Neuron Level:Each neuron has a bias value that adjusts the input sum, allowing the activation function to be shifted.
* Calculation:
* The activation value is computed by summing the weighted inputs from the previous layer and adding the bias.
* Formula: z=#(wi#ai)+bz = \sum (w_i \cdot a_i) + bz=#(wi#ai)+b, where wiw_iwi are the weights, aia_iai are the activation values from the previous layer, and bbb is the bias.
* The activation function (e.g., sigmoid, ReLU) is then applied to this sum to get the final activation value.
* Why Option A is Correct:
* Option A correctly identifies all components involved in computing the activation value: the individual bias, the activation values of the previous layer, and the weights of the connections.
* Eliminating Other Options:

* B. Activation values of neurons in the previous layer, and weights assigned to the connections between the neurons: This option misses the bias, which is crucial.
* C. Individual bias at the neuron level, and weights assigned to the connections between the neurons: This option misses the activation values from the previous layer.
* D. Individual bias at the neuron level, and activation values of neurons in the previous layer
This option misses the weights, which are essential.
References:
ISTQB CT-AI Syllabus, Section 6.1, Neural Networks, discusses the components and functioning of neurons in a neural network.
"Neural Network Activation Functions" (ISTQB CT-AI Syllabus, Section 6.1.1).

질문 # 109
Which ONE of the following types of coverage SHOULD be used if test cases need to cause each neuron to achieve both positive and negative activation values?
SELECT ONE OPTION

- A. Sign change coverage
- B. Neuron coverage
- C. Threshold coverage
- D. Value coverage

정답：A

설명：
* Coverage for Neuron Activation Values: Sign change coverage is used to ensure that test cases cause each neuron to achieve both positive and negative activation values. This type of coverage ensures that the neurons are thoroughly tested under different activation states.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Section 6.2 Coverage Measures for Neural Networks, which details different types of coverage measures, including sign change coverage.

질문 # 110
Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?
SELECT ONE OPTION

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

정답：C

설명：
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.
References:
* 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.

질문 # 111
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요즘 같은 인재가 많아지는 사회에도 많은 업계에서는 아직도 관련인재가 부족하다고 합니다.it업계에서도 이러한 상황입니다.ISTQB CT-AI시험은 it인증을 받을 수 있는 좋은 시험입니다. 그리고PassTIP는ISTQB CT-AI덤프를 제공하는 사이트입니다.

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