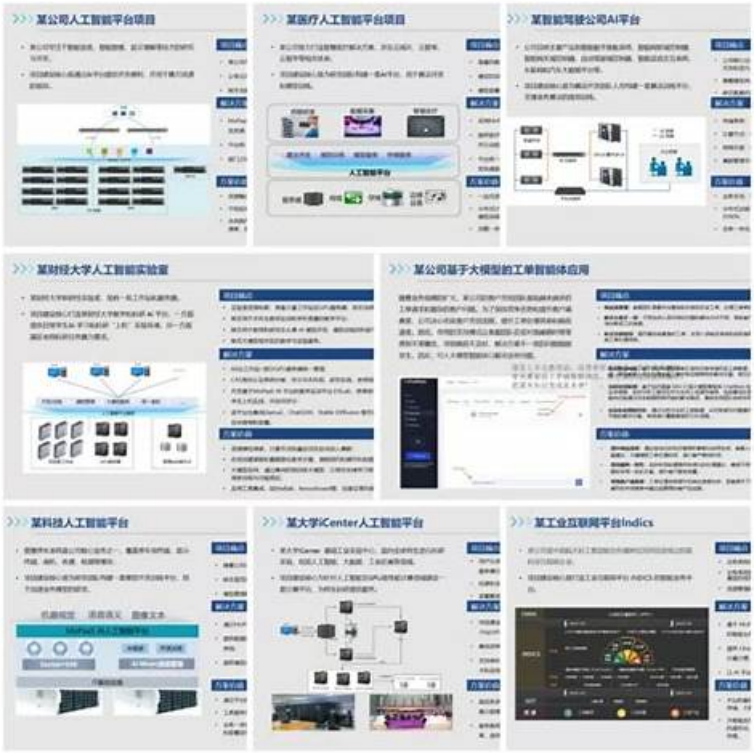
CT-AI權威認證 - CT-AI學習資料



P.S. PDFExamDumps在Google Drive上分享了免費的2026 ISTQB CT-AI考試題庫：https://drive.google.com/open?id=1rS9Ovk4E-DsoBRPmJvXLzjV8E9TOJqT

PDFExamDumps 考題網覆蓋了真實的 CT-AI 考試指南，並根據其編定適合全球考生都能通用的 CT-AI 題庫，讓每一位考生都能順利通過 ISTQB CT-AI 考試。我們承諾使用 CT-AI 考題的考生可以一次通過相關認證考試，對于一次不過的全額退款，避免您的後顧之憂。你現在就可以去網上可以免費下載我們提供的部分關於 ISTQB CT-AI 題庫的模擬測試題和答案作為嘗試。

PDFExamDumps 考題大師的擬真試題覆蓋了真實的考試真題，已經成為考生通過 ISTQB CT-AI 考试的首選學習資料。CT-AI 考試主要用於具有較高水準的實施顧問能力，獲取證書，以確保考生有一個堅實的專業基礎知識，有利於他們將此能力企業專業化。準備 ISTQB 的 CT-AI 考試的考生，需要熟練了解我們的擬真試題，快速完成測試，就能順利通過考試。

>> CT-AI權威認證 <<

CT-AI學習資料 & CT-AI PDF題庫

PDFExamDumps的CT-AI考古題是經過眾多考生檢驗過的資料，可以保證有很高的成功率。如果你用過考古題以後仍然沒有通過考試，PDFExamDumps會全額退款。或者你也可以選擇為你免費更新考試考古題。有了這樣的保障，實在沒有必要擔心了。

ISTQB CT-AI 考試大綱：

主題	簡介
主題 1	• 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.

主題 2	• systems from those required for conventional systems.
主題 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.
主題 4	• 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.
主題 5	• 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.
主題 6	• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based
主題 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.
主題 8	• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.

最新的 ISTQB AI Testing CT-AI 免費考試真題 (Q47-Q52):

問題 #47
Consider an AI-system in which the complex internal structure has been generated by another software system. Why would the tester choose to do black-box testing on this particular system?

- A. Black-box testing eliminates the need for the tester to understand the internal structure of the AI-system
- B. The tester wishes to better understand the logic of the software used to create the internal structure
- C. The black-box testing method will allow the tester to check the transparency of the algorithm used to create the internal structure
- D. Test automation can be built quickly and easily from the test cases developed during black-box testing

答案：A

解題說明：
The syllabus explains:
"Where the internal structure of an AI-based system is too complex for humans to understand, the system can only be tested as a black box. Even when the internal structure is visible, this provides no additional useful information to help with testing." This confirms that black-box testing is chosen because the tester does not need to understand the system's internal structure.
(Reference: ISTQB CT-AI Syllabus v1.0, Section 8.5, page 61 of 99)

問題 #48
Arihant Meditation is a startup using AI to aid people in deeper and better meditation based on analysis of various factors such as time and duration of the meditation, pulse and blood pressure, EEG patters etc. among others. Their model accuracy and other functional performance parameters have not yet reached their desired level.
Which ONE of the following factors is NOT a factor affecting the ML functional performance?
SELECT ONE OPTION

- A. The number of classes
- B. The data pipeline
- C. Biased data
- D. The quality of the labeling

答案：A

解題說明：

* Factors Affecting ML Functional Performance: The data pipeline, quality of the labeling, and biased data are all factors that significantly affect the performance of machine learning models. The number of classes, while relevant for the model structure, is not a direct factor affecting the performance metrics such as accuracy or bias.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Sections on Data Quality and its Effect on the ML Model and ML Functional Performance Metrics.

問題 #49
A transportation company operates three types of delivery vehicles in its fleet. The vehicles operate at different speeds (slow, medium, and fast). The transportation company is attempting to optimize scheduling and has created an AI-based program to plan routes for its vehicles using records from the medium-speed vehicle traveling to selected destinations. The test team uses this data in metamorphic testing to test the accuracy of the estimated travel times created by the AI route planner with the actual routes and times.
Which of the following describes the next phase of metamorphic testing?

- A. The team uses the same AI route planner to create routes that are longer and shorter but follow the same track. Finally, by driving the fast vehicles on the long routes and slow vehicles on the short routes and vice versa, the AI system will have enough information to infer travel times for all vehicles on all routes.
- B. The team tests the time required for the fast and slow vehicles to travel the same route as the medium vehicle. Then, by calculating the speed difference, they then predict how much faster or slower the vehicles will travel. That information is then used to verify that the arrival time of the vehicles meets the expected result.
- C. The team uses an AI system to select the most dissimilar routes. With this information, any of the AI routes can be metaphorically transformed into a fast or slow route.
- D. The team decomposes each route into the relevant components that affect the travel time, such as traffic density and vehicle power. The team then uses statistical analysis to characterize the influence of each component to calculate the fast and slow vehicle route times.

答案： B

解題說明：
The syllabus describes metamorphic testing as:
"Testing involves defining metamorphic relations and then applying those relations to check that the transformations result in expected outcomes, even when the expected output of the system is unknown or not well-defined." In this scenario, applying the metamorphic relation (speed differences) and checking the transformed outcome (arrival times) fits the definition of metamorphic testing.
(Reference: ISTQB CT-AI Syllabus v1.0, Section 9.5, page 69 of 99)

問題 #50
Which ONE of the following describes a situation of back-to-back testing the LEAST?
SELECT ONE OPTION

- A. Comparison of the results of the current neural network ML model on the current data set with a slightly modified data set.
- B. Comparison of the results of a current neural network model ML model implemented in platform A (for example Pytorch) with a similar neural network model ML model implemented in platform B (for example Tensorflow), for the same data.
- C. Comparison of the results of a home-grown neural network model ML model with results in a neural network model implemented in a standard implementation (for example Pytorch) for same data
- D. Comparison of the results of a neural network ML model with a current decision tree ML model for the same data.

答案： D

解題說明：
Back-to-back testing is a method where the same set of tests are run on multiple implementations of the system to compare their outputs. This type of testing is typically used to ensure consistency and correctness by comparing the outputs of different implementations under identical conditions. Let's analyze the options given:
A . Comparison of the results of a current neural network model ML model implemented in platform A (for example Pytorch) with a similar neural network model ML model implemented in platform B (for example Tensorflow), for the same data.
This option describes a scenario where two different implementations of the same type of model are being compared using the same dataset. This is a typical back-to-back testing situation.
B . Comparison of the results of a home-grown neural network model ML model with results in a neural network model implemented in a standard implementation (for example Pytorch) for the same data.
This option involves comparing a custom implementation with a standard implementation, which is also a typical back-to-back

testing scenario to validate the custom model against a known benchmark.
C . Comparison of the results of a neural network ML model with a current decision tree ML model for the same data.
This option involves comparing two different types of models (a neural network and a decision tree). This is not a typical scenario for back-to-back testing because the models are inherently different and would not be expected to produce identical results even on the same data.
D . Comparison of the results of the current neural network ML model on the current data set with a slightly modified data set.
This option involves comparing the outputs of the same model on slightly different datasets. This could be seen as a form of robustness testing or sensitivity analysis, but not typical back-to-back testing as it doesn't involve comparing multiple implementations.
Based on this analysis, option C is the one that describes a situation of back-to-back testing the least because it compares two fundamentally different models, which is not the intent of back-to-back testing.

問題 #51
Which ONE of the following options does NOT describe a challenge for acquiring test data in ML systems?
SELECT ONE OPTION

- A. Data for the use case is being generated at a fast pace.
- B. Compliance needs require proper care to be taken of input personal data.
- C. Test data being sourced from public sources.
- D. Nature of data constantly changes with lime.

答案：A

解題說明：
* Challenges for Acquiring Test Data in ML Systems: Compliance needs, the changing nature of data over time, and sourcing data from public sources are significant challenges. Data being generated quickly is generally not a challenge; it can actually be beneficial as it provides more data for training and testing.
* Reference: ISTQB_CT-AI_Syllabus_v1.0, Sections on Data Preparation and Data Quality Issues.

問題 #52
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