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NMTCB Mock Examinations 1 Multiple Choice Actual Questions and Answers 2024-2025 with complete solution

1. Before tracer administration, all the following preparations are required for a 27 year old woman referred for total-body bone imaging except:

A.) removing attenuation materials from the patient
B.) answering the patients questions
C.) ruling out pregnancy
D.) explaining the procedure to the patient
E.) swab the injection site with alcohol   Ans- A.) removing attenuation materials from the patient

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2. Which of the following structures normally appear as areas of increase activity on the bone image of children

A.) diaphyses of the long bones
B.) breast tissue
C.) lumbar spine and cranium
D.) costochondral junction and epiphyseal plates
E.) metatarsals   Ans- D.) costochondral junction and epiphyseal plates

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3. If tracer concentration is visualized in the skeleton, stomach, thyroid, and salivary glands on a bone image, the most likely explanation for these findings is that the:

A.) patient was imaged too soon after tracer administration
B.) patient renal function is compromised
C.) radiopharmaceutical contains free (Tc-99m) pertechnetate
D.) incorrect radiopharmaceutical was administered
E.) radiopharmaceutical contained excess free (F-18) sodium   Ans- C.) radiopharmaceutical contains free (Tc-99m) pertechnetate

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4. For interpretation of nuclear medicine lung images, a chest X ray is required to:

A.) rule out possible causes of the patients symptoms

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q37-Q42):

NEW QUESTION # 37
Pairwise testing can be used in the context of self-driving cars for controlling an explosion in the number of combinations of parameters.
Which ONE of the following options is LEAST likely to be a reason for this incredible growth of parameters?
SELECT ONE OPTION

- A. Different features like ADAS, Lane Change Assistance etc.
- B. ML model metrics to evaluate the functional performance
- C. Different weather conditions
- D. Different Road Types

Answer: B

Explanation:
Pairwise testing is used to handle the large number of combinations of parameters that can arise in complex systems like self-driving cars. The question asks which of the given options is least likely to be a reason for the explosion in the number of parameters.
* Different Road Types (A): Self-driving cars must operate on various road types, such as highways, city streets, rural roads, etc. Each road type can have different characteristics, requiring the car's system to adapt and handle different scenarios. Thus, this is a significant factor contributing to the growth of parameters.
* Different Weather Conditions (B): Weather conditions such as rain, snow, fog, and bright sunlight significantly affect the performance of self-driving cars. The car's sensors and algorithms must adapt to these varying conditions, which adds to the number of parameters that need to be considered.
* ML Model Metrics to Evaluate Functional Performance (C): While evaluating machine learning (ML) model performance is crucial, it does not directly contribute to the explosion of parameter combinations in the same way that road types, weather conditions, and car features do. Metrics are used to measure and assess performance but are not themselves variable conditions that the system must handle.
* Different Features like ADAS, Lane Change Assistance, etc. (D): Advanced Driver Assistance Systems (ADAS) and other features add complexity to self-driving cars. Each feature can have multiple settings and operational modes, contributing to the overall number of parameters.
Hence, the least likely reason for the incredible growth in the number of parameters is C. ML model metrics to evaluate the functional performance.
References:
* ISTQB CT-AI Syllabus Section 9.2 on Pairwise Testing discusses the application of this technique to manage the combinations of different variables in AI-based systems, including those used in self- driving cars.
* Sample Exam Questions document, Question #29 provides context for the explosion in parameter combinations in self-driving cars and highlights the use of pairwise testing as a method to manage this complexity.

NEW QUESTION # 38
Written requirements are given in text documents, which ONE of the following options is the BEST way to generate test cases from these requirements?
SELECT ONE OPTION

- A. GUI analysis by computer vision
- B. Machine learning on logs of execution
- C. Natural language processing on textual requirements
- D. Analyzing source code for generating test cases

Answer: C

Explanation:
When written requirements are given in text documents, the best way to generate test cases is by using Natural Language Processing (NLP). Here's why:
Natural Language Processing (NLP): NLP can analyze and understand human language. It can be used to process textual

requirements to extract relevant information and generate test cases. This method is efficient in handling large volumes of textual data and identifying key elements necessary for testing.

Why Not Other Options:

Analyzing source code for generating test cases: This is more suitable for white-box testing where the code is available, but it doesn't apply to text-based requirements.

Machine learning on logs of execution: This approach is used for dynamic analysis based on system behavior during execution rather than static textual requirements.

GUI analysis by computer vision: This is used for testing graphical user interfaces and is not applicable to text-based requirements.

NEW QUESTION # 39

Which ONE of the following hardware is MOST suitable for implementing AI when using ML?

SELECT ONE OPTION

- A. 64-bit CPUs.
- B. High powered CPUs.
- C. Hardware supporting high precision floating point operations.
- D. Hardware supporting fast matrix multiplication.

Answer: D

Explanation:

A . 64-bit CPUs.

While 64-bit CPUs are essential for handling large amounts of memory and performing complex computations, they are not specifically optimized for the types of operations commonly used in machine learning.

B . Hardware supporting fast matrix multiplication.

Matrix multiplication is a fundamental operation in many machine learning algorithms, especially in neural networks and deep learning. Hardware optimized for fast matrix multiplication, such as GPUs (Graphics Processing Units), is most suitable for implementing AI and ML because it can handle the parallel processing required for these operations efficiently.

C . High powered CPUs.

High powered CPUs are beneficial for general-purpose computing tasks and some aspects of ML, but they are not as efficient as specialized hardware like GPUs for matrix multiplication and other ML-specific tasks.

D . Hardware supporting high precision floating point operations.

High precision floating point operations are important for scientific computing and some specific AI tasks, but for many ML applications, fast matrix multiplication is more critical than high precision alone.

Therefore, the correct answer is B because hardware supporting fast matrix multiplication, such as GPUs, is most suitable for the parallel processing requirements of machine learning.

NEW QUESTION # 40

A wildlife conservation group would like to use a neural network to classify images of different animals. The algorithm is going to be used on a social media platform to automatically pick out pictures of the chosen animal of the month. This month's animal is set to be a wolf. The test team has already observed that the algorithm could classify a picture of a dog as being a wolf because of the similar characteristics between dogs and wolves. To handle such instances, the team is planning to train the model with additional images of wolves and dogs so that the model is able to better differentiate between the two.

What test method should you use to verify that the model has improved after the additional training?

- A. Pairwise testing using combinatorics to look at a long list of photo parameters.
- B. Metamorphic testing because the application domain is not clearly understood at this point.
- C. Adversarial testing to verify that no incorrect images have been used in the training.
- D. Back-to-back testing using the version of the model before training and the new version of the model after being trained with additional images.

Answer: D

Explanation:

Back-to-back testing is used to compare two different versions of an ML model, which is precisely what is needed in this scenario.

* The model initially misclassified dogs as wolves due to feature similarities.

* The test team retrains the model with additional images of dogs and wolves.

* The best way to verify whether this additional training improved classification accuracy is to compare the original model's output with the newly trained model's output using the same test dataset.

* A (Metamorphic Testing):Metamorphic testing is useful forgenerating new test casesbased on existing ones but does not directly compare different model versions.
* B (Adversarial Testing):Adversarial testing is used to check how robust a model is againstmaliciously perturbed inputs, not to verify training effectiveness.
* C (Pairwise Testing):Pairwise testing is a combinatorial technique for reducing the number of test casesby focusing on key variable interactions, not for validating model improvements.
* ISTQB CT-AI Syllabus (Section 9.3: Back-to-Back Testing)
* "Back-to-back testing is used when an updated ML model needs to be compared against a previous version to confirm that it performs better or as expected".
* "The results of the newly trained model are compared with those of the prior version to ensure that changes did not negatively impact performance".
Why Other Options Are Incorrect:Supporting References from ISTQB Certified Tester AI Testing Study Guide:Conclusion:To verify that the model's performance improved after retraining,back-to-back testing is the most appropriate methodas it compares both model versions. Hence, thecorrect answer is D.

NEW QUESTION # 41
Written requirements are given in text documents, which ONE of the following options is the BEST way to generate test cases from these requirements?
SELECT ONE OPTION

- A. GUI analysis by computer vision
- B. Machine learning on logs of execution
- C. Natural language processing on textual requirements
- D. Analyzing source code for generating test cases

Answer: C

Explanation:
When written requirements are given in text documents, the best way to generate test cases is by using Natural Language Processing (NLP). Here's why:
* Natural Language Processing (NLP): NLP can analyze and understand human language. It can be used to process textual requirements to extract relevant information and generate test cases. This method is efficient in handling large volumes of textual data and identifying key elements necessary for testing.
* Why Not Other Options:
* Analyzing source code for generating test cases: This is more suitable for white-box testing where the code is available, but it doesn't apply to text-based requirements.
* Machine learning on logs of execution: This approach is used for dynamic analysis based on system behavior during execution rather than static textual requirements.
* GUI analysis by computer vision: This is used for testing graphical user interfaces and is not applicable to text-based requirements.
References:This aligns with the methodology discussed in the syllabus under the section on using AI for generating test cases from textual requirements.

NEW QUESTION # 42
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