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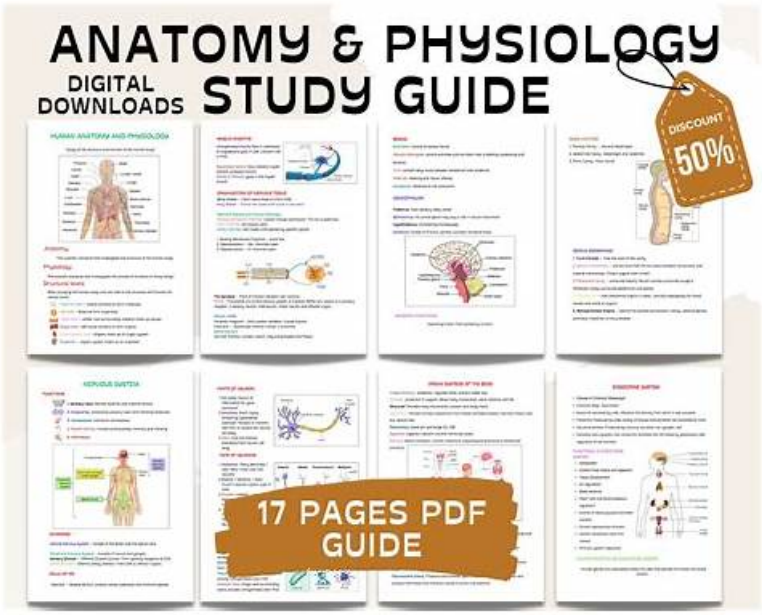

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ISTQB Certified Tester AI Testing Exam Sample Questions (Q110-Q115):

NEW QUESTION # 110
A team of software testers is attempting to create an AI algorithm to assist in software testing.
This particular team has gone through over 40 iterations of testing and cannot afford to spend as much time as it takes to run the full regression test suite. They are hoping to have the algorithm reduce the amount of testing required thus reducing the time needed for each testing cycle. How can an AI-based tool be expected to assist in this reduction?

- A. By performing bayesian analysis to estimate the types of human interactions that are expected to be seen in the system and then selecting those test cases
- B. By using A/B testing to compare the last update with the newest change and compare metrics between the two
- C. By performing optimization of the data from past iterations to see where the most common defects occurred and select the corresponding test cases

- D. By using a clustering method to quantify the relationships between test cases and then assigning each test case to a category

Answer: C

Explanation:
AI-based tools can significantly optimize regression test suites by analyzing historical data, past test results, associated defects, and changes made to the software. These tools prioritize and select the most relevant test cases based on previous defect patterns and frequently failing features, which helps in reducing the test execution time while maintaining effectiveness.

NEW QUESTION # 111
A neural network has been designed and created to assist day-traders improve efficiency when buying and selling commodities in a rapidly changing market. Suppose the test team executes a test on the neural network where each neuron is examined. For this network the shortest path indicates a buy, and it will only occur when the one-day predicted value of the commodity is greater than the spot price by 0.75%. The neurons are stimulated by entering commodity prices and testers verify that they activate only when the future value exceeds the spot price by at least
0.75%. Which of the following statements BEST explains the type of coverage being tested on the neural network?

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

Answer: D

Explanation:
The syllabus details that threshold coverage requires each neuron to achieve an activation value greater than a specified threshold: "Threshold coverage: Full threshold coverage requires that each neuron in the neural network achieves an activation value greater than a specified threshold."

NEW QUESTION # 112
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?

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

Answer: A

NEW QUESTION # 113
Which ONE of the following options describes a scenario of A/B testing the LEAST?

- A. A comparison of two different websites for the same company to observe from a user acceptance perspective.
- B. A comparison of the performance of an ML system on two different input datasets.
- C. A comparison of the performance of two different ML implementations on the same input data.
- D. A comparison of two different offers in a recommendation system to decide on the more effective offer for same users.

Answer: B

Explanation:
Option C describes comparing the performance of an ML system on two different input datasets.
This scenario focuses on the input data variation rather than the comparison of system versions or features, which is the essence of A/B testing. A/B testing typically involves a controlled experiment with two versions being tested under the same conditions, not different datasets.

NEW QUESTION # 114
Upon testing a model used to detect rotten tomatoes, the following data was observed by the test engineer, based on certain number of tomato images.
For this confusion matrix which combinations of values of accuracy, recall, and specificity respectively is CORRECT?

- A. 0.87.0.9. 0.84
- B. 0.84.1,0.9
- C. 1,0.9, 0.8
- D. 1,0.87,0.84

Answer: A

Explanation:
To calculate the accuracy, recall, and specificity from the confusion matrix provided, we use the following formulas:
Confusion Matrix:
Actually Rotten: 45 (True Positive), 8 (False Positive)
Actually Fresh: 5 (False Negative), 42 (True Negative)
Accuracy:
Accuracy is the proportion of true results (both true positives and true negatives) in the total population.
Formula: Accuracy=TP+TNTP+TN+FP+FN\text{Accuracy} = \frac{TP + TN}{TP + TN + FP + FN}Accuracy=TP+TN+FP+FNTP+TN Calculation: Accuracy=45+4245+42+8+5=87100=0.87\text{Accuracy} = \frac{45 + 42}{45 + 42 + 8 + 5} = \frac{87}{100} = 0.87Accuracy=45+42+8+545+42=10087=0.87
Recall (Sensitivity):
Recall is the proportion of true positive results in the total actual positives.
Formula: Recall=TPTP+FN\text{Recall} = \frac{TP}{TP + FN}Recall=TP+FNTP Calculation: Recall=4545+5=4550=0.9\text{Recall} = \frac{45}{45 + 5} = \frac{45}{50} = 0.9Recall=45+545=5045=0.9
Specificity:
Specificity is the proportion of true negative results in the total actual negatives.
Formula: Specificity=TNTN+FP\text{Specificity} = \frac{TN}{TN + FP}Specificity=TN+FPTN Calculation: Specificity=4242+8=4250=0.84\text{Specificity} = \frac{42}{42 + 8} = \frac{42}{50} = 0.84Specificity=42+842=5042=0.84
Therefore, the correct combinations of accuracy, recall, and specificity are 0.87, 0.9, and 0.84 respectively.

NEW QUESTION # 115
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