

ISTQB

CT-AI
ISTQB Certified Tester - AI Testing (CT-AI)

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Question: 1

Which of the following options BEST describes a deep neural net?

Response:

- A. It is comprised of a hierarchical structure of neurons with the lowest (deepest) neurons making most of the decisions
- B. It is comprised of connected neurons where each neuron has an associated bias and each connection has an associated weight
- C. It is made up several layers with each layer (except input and output layers) connected to each other layer and errors are propagated backwards through the network
- D. It is made up of layers of neurons, each of which generates an activation value based on the other neurons in the same layer

Answer: B

Question: 2

Which of the following statements is CORRECT with respect to visual testing?

Response:

- A. Visual testing makes use of object IDs to determine changes
- B. Visual testing uses images to do pixel-by-pixel comparisons
- C. Visual testing helps find overlapping user interface elements
- D. Visual testing fails when the screen layout changes

Answer: A

Question: 3

System testing of an AI-based system is being planned. It has been suggested that exploratory testing is used in addition to scripted test techniques.

Which of the following scenarios is MOST likely to be an example of exploratory testing being performed?

Response:

- A. Training data is visualized using tools to look at various aspects of the data
- B. Tests written using equivalence partitioning during the previous test cycle are being run
- C. The Google 'ML test checklist' is being used

D. ML functional performance metrics are being calculated

Answer: A

Question: 4

When performing testing of a trained model, an ML engineer found that the model was highly accurate when evaluated with validation data but that it performed poorly with independent test data.

Which of the following options is MOST likely to cause this situation?

Response:

- A. Underfitting
- B. Concept drift
- C. Overfitting
- D. Poor acceptance criteria

Answer: C

Question: 5

Which of the following characteristics of an example AI-based system might cause a test oracle problem?

Response:

- A. The output of the system is a prediction for which the ground truth is unknown
- B. It is not known where the training data was obtained
- C. The system runs with no human intervention and is considered to be autonomous
- D. There is a lack of transparency into how the system was implemented

Answer: B

Question: 6

In which of the following situations would AI be MOST useful when categorizing new defects?

Response:

- A. A small number of defects requires categorization on a new application
- B. A large number of defects is reported on a small application
- C. Minimal data is provided in typical defect reports
- D. A new development team needs to know the most appropriate developer to fix a defect

Answer: B

Question: 7

An ML engineer is trying to find exploitable inputs and then use these inputs to retrain the models to make them immune to these inputs. Which of the following options BEST describes the approach being used by the ML engineer?

Response:

- A. Validation
- B. Adversarial testing
- C. Data pipeline testing
- D. Scalability testing

Answer: B

Question: 8

The data scientist has complained that the model cannot be trained with one particular algorithm, although other algorithms work with the same training data

a. Which of the following options is the MOST likely reason for this?

Response:

- A. Wrong data
- B. Missing data
- C. Badly labelled data
- D. Insufficient data

Answer: D

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