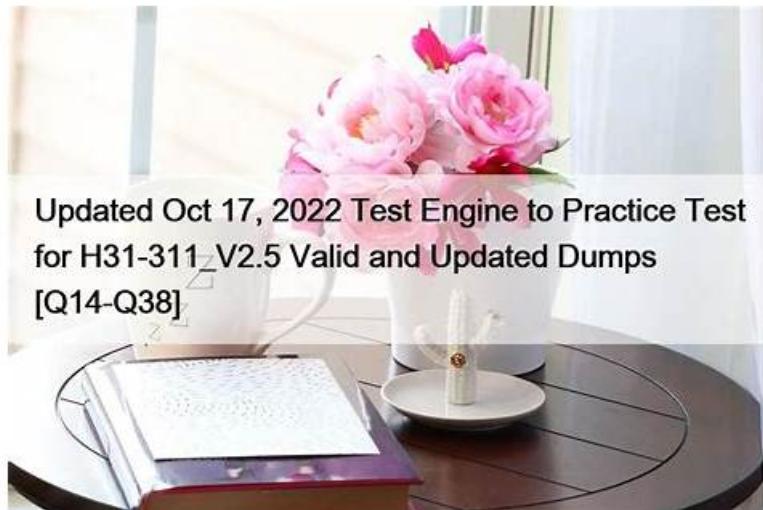


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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q32-Q37):

NEW QUESTION # 32

Which of the following statements about the functions of layer normalization and residual connection in the Transformer is true?

- A. Layer normalization accelerates model convergence and does not affect model stability.
- B. Residual connections and layer normalization help prevent vanishing gradients and exploding gradients in deep networks.
- C. Residual connections primarily add depth to the model but do not aid in gradient propagation.
- D. In shallow networks, residual connections are beneficial, but they aggravate the vanishing gradient problem in deep networks.

Answer: B

Explanation:

In Transformers:

- * Residual connections help preserve gradient flow through deep networks, mitigating vanishing/exploding gradient issues.
- * Layer normalization stabilizes training by normalizing across features, improving convergence speed and training stability. Thus, A is correct, while B, C, and D are incorrect.

Exact Extract from HCIP-AI EI Developer V2.5:

"Residual connections and layer normalization stabilize deep network training, prevent gradient issues, and accelerate convergence."
Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Training Mechanisms

NEW QUESTION # 33

Which of the following are required for the image object detection algorithm?

- A. Object classification determination
- B. Object location calculation
- C. Confidence calculation
- D. Object contour calculation

Answer: A,B,C

Explanation:

An object detection system must:

- * Classify the detected object (A).
- * Locate the object by generating bounding box coordinates (C).
- * Estimate confidence scores indicating prediction reliability (D).

Object contour calculation (B) is a separate task often related to instance segmentation, not general object detection.

Exact Extract from HCIP-AI EI Developer V2.5:

"Object detection includes classification, bounding box localization, and confidence score prediction. Contour detection belongs to segmentation tasks."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Object Detection Workflow

NEW QUESTION # 34

In the field of deep learning, which of the following activation functions has a derivative not greater than 0.5?

- A. Sigmoid
- B. Tanh
- C. SeLU
- D. ReLU

Answer: A

Explanation:

The sigmoid activation function maps inputs to the range (0, 1) and has a maximum derivative of 0.25 at x=0.

This derivative value is always # 0.5, making it the correct choice here. While sigmoid is historically used in neural networks, it suffers from the vanishing gradient problem for large positive or negative inputs due to its small derivative values. Other functions such as ReLU, Tanh, and SeLU have different derivative behaviors, with ReLU having a derivative of 1 for positive inputs, Tanh having derivatives up to 1, and SeLU designed for self-normalizing networks with derivatives potentially greater than 0.5.

Exact Extract from HCIP-AI EI Developer V2.5:

"Sigmoid compresses values into the (0,1) range, with its maximum derivative being 0.25, which is always less than 0.5."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Activation Functions in Neural Networks

NEW QUESTION # 35

Overfitting is a condition where a model is overly simple and excessive generalization errors occur.

- A. FALSE
- B. TRUE

Answer: A

Explanation:

Overfitting occurs when a model learns the training data too well, including its noise and outliers, to the extent that it negatively impacts performance on unseen data. Contrary to the statement, overfitting is not caused by an "overly simple" model but typically by an overly complex model with too many parameters relative to the amount of training data. Such models have high variance and low bias, meaning they fit the training data perfectly but fail to generalize to new datasets. In the HCIP-AI EI Developer V2.5 curriculum, overfitting is described as a scenario where the model's complexity captures random fluctuations in training data instead of general patterns, leading to poor predictive performance.

Exact Extract from HCIP-AI EI Developer V2.5:

"Overfitting means that the trained model performs very well on the training dataset but poorly on new data.

It usually results from excessive model complexity, insufficient data, or lack of regularization." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Model Training Challenges

NEW QUESTION # 36

In 2017, the Google machine translation team proposed the Transformer in their paper Attention is All You Need. In a Transformer model, there is a customized LSTM with CNN layers.

- A. FALSE
- B. TRUE

Answer: A

Explanation:

The Transformer architecture introduced in 2017 eliminates recurrence (RNN) and convolution entirely, relying solely on self-attention mechanisms and feed-forward layers. It does not contain LSTM or CNN components, which distinguishes it from previous sequence models.

Exact Extract from HCIP-AI EI Developer V2.5:

"The Transformer architecture does not use RNNs or CNNs. It relies entirely on self-attention and feed-forward networks for sequence modeling." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Architecture Overview

NEW QUESTION # 37

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