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## Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q47-Q52):

### NEW QUESTION # 47

The natural language processing field usually uses distributed semantic representation to represent words.

Each word is no longer a completely orthogonal 0-1 vector, but a point in a multi-dimensional real number space, which is

specifically represented as a real number vector.

- A. FALSE
- B. TRUE

**Answer: B**

Explanation:

Traditional word representations like one-hot vectors are sparse and orthogonal, failing to capture semantic similarities. Distributed semantic representations (word embeddings) map words to dense, continuous vectors in a multi-dimensional space where similar words have similar vector representations. This approach enables better generalization and semantic reasoning in NLP tasks.

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

"Distributed semantic representation maps words to dense real-valued vectors in continuous space, allowing semantic similarity to be captured in vector geometry." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Word Vector Representation

#### NEW QUESTION # 48

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

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

**Answer: A**

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 # 49

The accuracy of object location detection can be evaluated using the intersection over union (IoU) value, which is a ratio. The denominator is the overlapping area between the prediction bounding box and ground truth bounding box, and the numerator is the area of union encompassed by both boxes.

- A. TRUE
- B. FALSE

**Answer: B**

Explanation:

The IoU metric is defined as:

$$\text{IoU} = (\text{Area of Overlap}) / (\text{Area of Union})$$

\* Numerator: Area of overlap between the predicted bounding box and the ground truth bounding box.

\* Denominator: Area of union of both bounding boxes.

The statement given in the question reverses the numerator and denominator, which is why it is incorrect. IoU is crucial for object detection evaluation, and higher IoU values indicate better localization accuracy.

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

"Intersection over Union (IoU) is calculated as the ratio of the intersection area between prediction and ground truth bounding boxes to their union area." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Object Detection Metrics

### NEW QUESTION # 50

In NLP tasks, transformer models perform well in multiple tasks due to their self-attention mechanism and parallel computing capability. Which of the following statements about transformer models are true?

- A. Multi-head attention is the core component of a transformer model. It computes multiple attention heads in parallel to capture semantic information in different subspaces.
- B. Transformer models outperform RNN and CNN in processing long texts because they can effectively capture global dependencies.
- C. Positional encoding is optional in a transformer model because the self-attention mechanism can naturally process the order information of sequences.
- D. A transformer model directly captures the dependency between different positions in the input sequence through the self-attention mechanism, without using the recurrent neural network (RNN) or convolutional neural network (CNN).

**Answer: A,B,D**

Explanation:

Transformers are designed for sequence modeling without recurrence or convolution.

\* A: True - self-attention captures global dependencies efficiently, outperforming RNNs/CNNs in long text processing.

\* B: True - multi-head attention computes multiple attention projections in parallel.

\* C: True - the architecture is purely attention-based.

\* D: False - positional encoding is required because self-attention does not inherently encode sequence order.

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

"The Transformer uses self-attention to model dependencies and multi-head attention to capture features in different subspaces. Positional encoding must be added to preserve sequence order." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Architecture

### NEW QUESTION # 51

When the chi-square test is used for feature selection, SelectKBest and \_\_\_\_\_ function or class must be imported from the sklearn.feature\_selection module. (Enter the function interface name.) chi2 Explanation:

In feature selection for classification tasks, the chi-square ( $\chi^2$ ) statistical test can be applied to evaluate the independence between features and target labels.

In Python's scikit-learn library, this is implemented using:

**Answer:**

Explanation:

```
python
```

```
CopyEdit
```

```
from sklearn.feature_selection import SelectKBest, chi2
```

SelectKBest selects the top K features based on scores returned by the chi2 function.

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

"In scikit-learn, SelectKBest with chi2 can be used for feature selection by scoring features according to the chi-square statistic."

Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Feature Selection Methods

### NEW QUESTION # 52

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