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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q30-Q35):

NEW QUESTION # 30

Transformer models outperform LSTM when analyzing and processing long-distance dependencies, making them more effective for sequence data processing.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

Transformers, using self-attention, can capture dependencies between any two positions in a sequence directly, regardless of distance. LSTMs, despite gating mechanisms, process sequences step-by-step and may struggle with very long dependencies due to vanishing gradients. This makes Transformers more efficient and accurate for tasks involving long-range context, such as document summarization or translation.

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

"Transformers excel in modeling long-distance dependencies because self-attention relates all positions in a sequence simultaneously,

unlike recurrent models." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer vs. RNN Performance

NEW QUESTION # 31

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. Transformer models outperform RNN and CNN in processing long texts because they can effectively capture global dependencies.
- B. Positional encoding is optional in a transformer model because the self-attention mechanism can naturally process the order information of sequences.
- C. 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).
- D. 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.

Answer: A,C,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 # 32

In 2017, the Google machine translation team proposed the Transformer in their paper Attention is All You Need. The Transformer consists of an encoder and a(n) ----- (Fill in the blank.)

Answer:

Explanation:

Decoder

Explanation:

The Transformer model architecture includes:

* Encoder: Encodes the input sequence into contextualized representations.

* Decoder: Uses the encoder output and self-attention over previously generated tokens to produce the target sequence.

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

"The Transformer consists of an encoder-decoder structure, with self-attention mechanisms in both components for sequence-to-sequence learning." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Overview

NEW QUESTION # 33

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. TRUE
- B. FALSE

Answer: A

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 # 34

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

- A. TRUE
- B. FALSE

Answer: B

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 # 35

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