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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q26-Q31):

NEW QUESTION # 26

Vision transformer (ViT) performs well in image classification tasks. Which of the following is the main advantage of ViT?

- A. The self-attention mechanism is used to capture global features of images, improving classification accuracy.
- B. It can process high-resolution images to enhance classification accuracy.
- C. It achieves fast convergence without using pre-trained models.
- D. It can handle small datasets with minimal labeling required.

Answer: A

Explanation:

The Vision Transformer (ViT) applies the transformer architecture to image patches. Its key advantage is the use of self-attention to capture global dependencies and relationships between all parts of an image. This allows ViT to excel in classification accuracy, especially on large datasets with sufficient pre-training.

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

"ViT applies self-attention to image patches, enabling global feature extraction and improving classification performance compared to local receptive fields in CNNs." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Models in Vision

NEW QUESTION # 27

Which of the following statements about the levels of natural language understanding are true?

- A. Pragmatic analysis is to study the influence of the language's external environment on the language users.
- B. Lexical analysis is to find the lexemes of a word and obtain linguistic information from them.
- C. Syntactic analysis is to find out the meaning of words, structural meaning, their combined meaning, so as to determine the true meaning or concept expressed by a language.
- D. Semantic analysis is to analyze the structure of sentences and phrases to find out the relationship between words and phrases, as well as their functions in sentences.
- E. Speech analysis involves distinguishing independent phonemes from a speech stream based on phoneme rules, and then identifying syllables and their lexemes or words according to the phoneme form rules.

Answer: A,B,E

Explanation:

- * A: Incorrect - description given matches semantic analysis, not syntactic analysis.
- * B: Incorrect - description given matches syntactic analysis, not semantic analysis.
- * C: Correct - speech analysis focuses on phoneme recognition and word identification.
- * D: Correct - lexical analysis identifies lexemes and retrieves their linguistic details.
- * E: Correct - pragmatic analysis studies language use in context and environment.

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

"Natural language understanding involves lexical, syntactic, semantic, speech, and pragmatic analyses, each focusing on different layers of language processing." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Levels of Language Understanding

NEW QUESTION # 28

In the image recognition algorithm, the structure design of the convolutional layer has a great impact on its performance. Which of the following statements are true about the structure and mechanism of the convolutional layer? (Transposed convolution is not considered.)

- A. The convolutional layer slides over the input feature map using a convolution kernel of a fixed size to extract local features without explicitly defining their features.
- B. The convolutional layer uses parameter sharing so that features at different positions share the same group of parameters. This reduces the number of network parameters required but reduces the expression capabilities of models.
- C. In the convolutional layer, each neuron only collects some information. This effectively reduces the memory required.
- D. A stride in the convolutional layer can control the spatial resolution of the output feature map. A larger stride indicates a smaller output feature map and simpler calculation.

Answer: A,B,C,D

Explanation:

The convolutional layer in CNNs is optimized for spatial feature extraction:

- * Local connectivity(A) reduces computation and memory usage.
- * Parameter sharing(B) reduces the number of learnable parameters and helps prevent overfitting.
- * Stride control(C) allows adjusting the output resolution and computational cost.
- * Sliding kernel operation(D) extracts local patterns without manual feature definition.

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

"CNN convolutional layers leverage local connectivity, parameter sharing, and stride control to efficiently extract local features, reducing computational requirements compared to fully-connected layers." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Convolutional Neural Networks

NEW QUESTION # 29

In cases where the bright and dark areas of an image are too extreme, which of the following techniques can be used to improve the image?

- A. Grayscale stretching
- B. Inversion
- C. **Gamma correction**
- D. Grayscale compression

Answer: C

Explanation:

When the contrast between bright and dark areas is extreme, gamma correction is effective in adjusting luminance in a non-linear way to balance these extremes.

- * If $\gamma < 1$, dark areas are brightened, highlights are compressed.
- * If $\gamma > 1$, bright areas are emphasized, shadows are compressed. Other methods like grayscale stretching and compression target linear contrast changes, while inversion flips pixel values but doesn't balance extreme light/dark ranges effectively.

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

"Gamma correction adjusts image brightness non-linearly, suitable for correcting overly bright or overly dark regions, improving overall visibility." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Image Enhancement

NEW QUESTION # 30

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 # 31

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