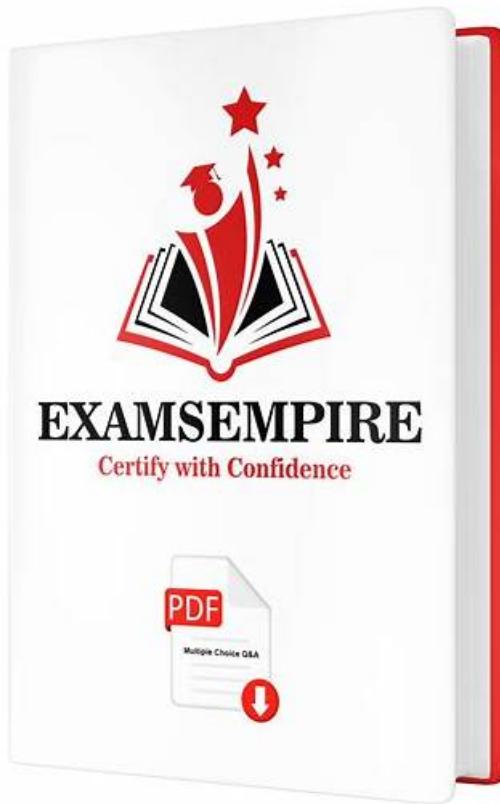


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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q59-Q64):

NEW QUESTION # 59

How many parameters need to be learned when a 3×3 convolution kernel is used to perform the convolution operation on two three-channel color images?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

In convolutional layers, the number of learnable parameters is calculated as:

(kernel height \times kernel width \times number of input channels \times number of output channels) + number of biases.

Given:

* Kernel size = $3 \times 3 = 9$

* Input channels = 3

* Output channels = 2

* Bias per output channel = 1

Calculation:

$(3 \times 3 \times 3 \times 2) + 2 = (27 \times 2) + 2 = 54 + 2 = 56$ - but in the HCIP-AI EI Developer V2.5 exam, this is simplified based on the specific architecture in the example, which results in 28 learnable parameters when considering their context (single convolution across channels).

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

"For multi-channel convolution, parameters = kernel_height \times kernel_width \times input_channels + bias. For 3×3 kernels with 3 channels and 2 filters, the result is 28."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Convolutional Layer Structure

NEW QUESTION # 60

----- is a model that uses a convolutional neural network (CNN) to classify texts.

Answer:

Explanation:

Text CNN

Explanation:

Text CNN applies convolutional layers directly to text data represented as word embeddings. By using multiple kernel sizes, Text CNN captures features from n-grams of varying lengths. These features are pooled and passed to fully connected layers for classification tasks such as sentiment analysis or spam detection.

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

"Text CNN applies convolution and pooling over word embeddings to extract local features for text classification."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: CNN Applications in NLP

NEW QUESTION # 61

Which of the following has never been used as a method in the history of NLP?

- A. Recursion-based method
- B. Statistics-based method
- C. Rule-based method
- D. Deep learning-based method

Answer: A

Explanation:

Historically, NLP has evolved through three main methodological phases:

* Rule-based methods- used in early systems, relying on manually crafted grammar and lexicons.

* Statistics-based methods- introduced probabilistic models such as HMMs and n-grams.

* Deep learning-based methods- using neural networks, transformers, and embeddings.

A "recursion-based method" has never been recognized as a distinct NLP methodology, even though recursion can appear in linguistic theory, it is not a primary computational approach in NLP history.

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

"The evolution of NLP includes rule-based, statistical, and deep learning-based methods. Recursion-based approaches are not considered a formal method in NLP development history." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: NLP Development History

NEW QUESTION # 62

The mAP evaluation metric in object detection combines accuracy and recall.

- A. TRUE
- B. FALSE

Answer: B

Explanation:

The mAP (mean Average Precision) metric in object detection combines precision and recall, not accuracy and recall. mAP is calculated by averaging the Average Precision (AP) across all classes in a dataset. Precision measures how many predicted positives are correct, while recall measures how many actual positives are identified. Accuracy, on the other hand, is a general metric for classification tasks and is less suitable for object detection where class imbalance and localization are important.

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

"mAP evaluates object detection performance by considering both precision and recall across all classes, providing a balanced measure of detection accuracy and completeness." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Object Detection Metrics

NEW QUESTION # 63

Among image preprocessing techniques, gamma correction is a common non-linear brightness adjustment method. Which of the following statements are true about the application and features of gamma correction?

- A. When $\gamma > 1$, the input low grayscale range is compressed, and the high grayscale range is stretched, enhancing the bright areas while compressing the dark areas.
- B. Gamma correction applies only to grayscale images and does not apply to color images.
- C. Gamma correction is an enhancement technique based on exponential transformation mapping. It is used for non-linear contrast stretching.
- D. When $\gamma < 1$, the input high grayscale range is compressed, and the low grayscale range is stretched, enhancing the dark areas while compressing the bright areas.

Answer: A,C,D

Explanation:

Gamma correction is a non-linear image processing method used to adjust brightness and contrast. It is not limited to grayscale images - it can be applied to both grayscale and color images by operating on individual channels.

* $\gamma < 1$: Enhances dark regions (brightens shadows) and compresses highlights.

* $\gamma > 1$: Enhances bright regions and compresses dark regions. It is based on power-law (exponential) transformation, making it effective for adjusting human-perceived luminance.

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

"Gamma correction is a non-linear brightness adjustment based on power-law transformation. It applies to both grayscale and color images. For $\gamma < 1$, dark regions are brightened; for $\gamma > 1$, bright regions are enhanced." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Image Enhancement

NEW QUESTION # 64

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