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

NEW QUESTION # 59

The image saturation can be enhanced by processing the _____ component of the HSV color space. (Enter H, S, or V.)

Answer:

Explanation:

S

Explanation:

In the HSV (Hue, Saturation, Value) color model:

* H represents hue (color type).

* S represents saturation (color intensity or vividness).

* V represents brightness.

To enhance saturation in an image, adjustments are made to the S component. Increasing S increases the color vividness, making the image appear more vibrant, while reducing S moves colors toward grayscale. This approach is widely used in image enhancement tasks, especially in object recognition and segmentation, where vivid colors improve feature contrast.

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

"In HSV color space, saturation (S) describes the vividness of colors. Increasing the S value enhances saturation, making colors more intense, while decreasing it makes them closer to gray." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Image Processing Basics

NEW QUESTION # 60

The `jieba -----()` method can be used for word segmentation.

Answer:

Explanation:

`cut`

Explanation:

In Python's `jieba` library, the `cut()` method is used for Chinese word segmentation. It splits a given sentence into individual words based on probabilistic models and a dictionary. The method supports both precise mode and full mode, with precise mode being the default for balanced accuracy and completeness.

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

"The `jieba.cut()` method segments Chinese text into words, supporting multiple modes for different application needs."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Chinese Word Segmentation Tools

NEW QUESTION # 61

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: D

Explanation:

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

$(\text{kernel height} \times \text{kernel width} \times \text{number of input channels} \times \text{number of output channels}) + \text{number of biases.}$

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 # 62

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

- A. TRUE
- B. FALSE

Answer: B

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 # 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. Gamma correction is an enhancement technique based on exponential transformation mapping. It is used for non-linear contrast stretching.
- B. Gamma correction applies only to grayscale images and does not apply to color images.
- C. 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.
- D. 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.

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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