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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q27-Q32):

NEW QUESTION # 27

----- is a text representation method based on the bag of words (BoW) model. It decomposes words into subwords and then adds the vector representations of the subwords to obtain word vectors, fully utilizing character N-gram information. (Fill in the blank.)

Answer:

Explanation:

FastText

Explanation:

FastText is an extension of Word2Vec developed by Facebook AI Research. Unlike Word2Vec, which learns embeddings for whole words, FastText represents each word as a sum of its character n-gram embeddings.

This helps in handling rare words and morphologically rich languages by generating embeddings for unseen words from their subword components.

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

"FastText decomposes words into character n-grams and represents words as the sum of their n-gram vectors, improving representation for rare and out-of-vocabulary words." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Subword Embedding Models

NEW QUESTION # 28

In an HSV color space, H is for hue, S is for saturation, and V is for value. Which of the following statements about the HSV color space are true?

- A. The HSV color space perceives colors differently from human eyes, so it is not suitable for image segmentation or color analysis.
- B. Hue indicates the basic color attributes, such as red, green, and blue.
- C. Saturation describes how vivid the color is. The lower the saturation, the closer the color is to gray. The higher the saturation, the more vivid the color.
- D. Value is a measure of brightness. The image brightness can be enhanced by processing the V component of the HSV color space.

Answer: B,C,D

Explanation:

The HSV model separates chromatic content (Hue, Saturation) from brightness (Value):

* H (Hue): Defines the type of color (e.g., red, blue).

* S (Saturation): Measures vividness - low S means muted colors, high S means vivid colors.

* V (Value): Controls brightness - increasing V brightens the image. Contrary to option D, HSV aligns more closely with human perception than RGB, making it suitable for segmentation and color-based analysis.

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

"HSV separates hue, saturation, and brightness, making it closer to human vision perception and suitable for color-based image analysis." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Color Spaces

NEW QUESTION # 29

The U-Net uses an upsampling mechanism and has a fully-connected layer.

- A. FALSE
- B. TRUE

Answer: A

Explanation:

U-Net is a convolutional neural network architecture designed for biomedical image segmentation. It consists of a contracting path for feature extraction and an expansive path for precise localization, using upsampling in the decoding path. However, U-Net does not include fully-connected layers; instead, it uses only convolutional layers to maintain spatial information. Removing fully-connected layers ensures the network can handle images of varying sizes without requiring fixed input dimensions.

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

"U-Net architecture is fully convolutional and avoids fully-connected layers to preserve spatial resolution, relying on upsampling in the decoder path for segmentation tasks." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Semantic Segmentation Networks

NEW QUESTION # 30

When training a deep neural network model, a loss function measures the difference between the model's predictions and the actual labels.

- A. FALSE
- B. TRUE

Answer: B

Explanation:

In the HCIP-AI EI Developer V2.5 study guide, the loss function is defined as a core component in training deep neural network models. It serves as a quantitative measure of how well the model's predictions match the actual ground truth labels. By calculating the difference between predicted outputs and actual labels, the loss function provides feedback that the optimization algorithm (such as gradient descent) uses to update model parameters. This process is iterative, aiming to minimize the loss value, thereby improving prediction accuracy. For example, in classification tasks, Cross-Entropy Loss is commonly used, while in regression tasks, Mean Squared Error (MSE) is typical. The smaller the loss, the better the model's performance on the given data.

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

"A loss function is an objective function that evaluates the difference between the model output and the real label. The goal of training is to minimize this loss so that the model predictions approach the actual values." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Model Training and Evaluation

NEW QUESTION # 31

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: B

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, $\text{parameters} = \text{kernel_height} \times \text{kernel_width} \times \text{input_channels} + \text{bias}$. 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 # 32

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