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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q21-Q26):

NEW QUESTION # 21

The deep neural network (DNN)-hidden Markov model (HMM) does not require the HMM-Gaussian mixture model (GMM) as an auxiliary.

- A. TRUE
- B. FALSE

Answer: B

Explanation:

In traditional hybrid DNN-HMM speech recognition systems, the DNN is often trained using frame-level alignments generated by an HMM-GMM system. The GMM serves as an auxiliary tool to perform initial alignments between audio frames and phonetic units, which are then used to train the DNN. Without the HMM-GMM step, supervised training of the DNN in this context is typically not possible.

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

"In a DNN-HMM hybrid system, the DNN replaces the GMM in modeling emission probabilities, but GMMs are still used in the initial alignment process to prepare training data for the DNN." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Hybrid Speech Recognition Models

NEW QUESTION # 22

Which of the following statements about the standard normal distribution are true?

- A. The variance is 1.
- B. The mean is 1.
- C. The variance is 0.
- D. The mean is 0.

Answer: A,D

Explanation:

A standard normal distribution is a special case of the normal distribution with:

* Mean (μ) = 0

* Variance (σ^2) = 1 This standardization is widely used in statistics and machine learning to normalize features for improved model convergence. Statements A and B are incorrect because variance is never 0 in a valid distribution, and the mean is 0, not 1.

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

"The standard normal distribution is defined with $\mu = 0$ and $\sigma^2 = 1$, providing a normalized scale for statistical analysis."

Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Probability and Statistics Fundamentals

NEW QUESTION # 23

The basic operations of morphological processing include dilation and erosion. These operations can be combined to achieve practical algorithms such as opening and closing operations.

- A. FALSE
- B. TRUE

Answer: B

Explanation:

Morphological processing in image analysis is used to process binary or grayscale images based on shape.

* Dilation: Expands object boundaries, useful for filling small holes.

* Erosion: Shrinks object boundaries, useful for removing noise. By combining them:

* Opening: Erosion followed by dilation (removes small objects/noise).

* Closing: Dilation followed by erosion (fills small holes).

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

"Morphological processing is based on dilation and erosion. Opening and closing are composite operations derived from these two to handle noise removal and hole filling." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Morphological Image Processing

NEW QUESTION # 24

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. In the convolutional layer, each neuron only collects some information. This effectively reduces the memory required.
- C. 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.
- 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 # 25

Maximum likelihood estimation (MLE) can be used for parameter estimation in a Gaussian mixture model (GMM).

- A. FALSE
- B. TRUE

Answer: B

Explanation:

A Gaussian mixture model represents a probability distribution as a weighted sum of multiple Gaussian components.

The MLE method can be applied to estimate the parameters of these components (means, variances, and mixing coefficients) by maximizing the likelihood of the observed data. The Expectation- Maximization (EM) algorithm is typically used to perform MLE in GMMs because it can handle hidden (latent) variables representing the component assignments.

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

"MLE, implemented through the EM algorithm, is commonly used to estimate the parameters of Gaussian mixture models."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Gaussian Mixture Models

NEW QUESTION # 26

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