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## Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q37-Q42):

### NEW QUESTION # 37

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

- A. FALSE
- B. TRUE

**Answer: A**

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 # 38

When the chi-square test is used for feature selection, SelectKBest and \_\_\_\_\_ function or class must be imported from the sklearn.feature\_selection module. (Enter the function interface name.) chi2 Explanation:

In feature selection for classification tasks, thechi-square (#<sup>2</sup>)statistical test can be applied to evaluate the independence between features and target labels.

In Python's scikit-learn library, this is implemented using:

#### Answer:

Explanation:

python

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```
from sklearn.feature_selection import SelectKBest, chi2
```

SelectKBest selects the top K features based on scores returned by the chi2 function.

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

"In scikit-learn, SelectKBest with chi2 can be used for feature selection by scoring features according to the chi-square statistic."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Feature Selection Methods

### NEW QUESTION # 39

Which of the following statements about the functions of the encoder and decoder is true?

- A. The encoder converts variable-length input sequences into fixed-length context vectors, encoding the information of the input sequences in the context vectors.
- B. The output lengths of the encoder and decoder are the same.
- C. The encoder converts context vectors into variable-length output sequences.
- D. The decoder converts variable-length input sequences into fixed-length context vectors, encoding the information of the input sequences in the context vectors.

#### Answer: A

Explanation:

In an encoder-decoder architecture:

\* The encoder processes variable-length inputs and encodes them into fixed-length context vectors that summarize the input. (C is correct.)

\* The decoder generates output sequences from this context, which may be of variable length.

\* A describes the decoder incorrectly; B mixes roles; D is false because output length depends on the target sequence, not the encoder output length.

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

"The encoder transforms variable-length sequences into context vectors, which the decoder uses to generate variable-length outputs." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Encoder-Decoder Functions

### NEW QUESTION # 40

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 # 41

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 applies only to grayscale images and does not apply to color images.
- B. Gamma correction is an enhancement technique based on exponential transformation mapping. It is used for non-linear contrast stretching.
- C. 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.
- 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: B,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 # 42

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