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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q28-Q33):

NEW QUESTION # 28

Mel-frequency cepstral coefficients (MFCCs) take into account human auditory characteristics by first mapping the linear spectrum to the Mel nonlinear spectrum based on auditory perception, and then converting it to the cepstral domain.

- A. TRUE

- B. FALSE

Answer: A

Explanation:

MFCCs are a widely used feature extraction method in speech recognition. The process involves:

- * Converting the time-domain signal to the frequency domain using the Fourier transform
- * Mapping the frequency scale to the Mel scale to mimic human hearing perception.
- * Taking the logarithm of the power spectrum to emphasize perceptually important differences.
- * Applying the discrete cosine transform (DCT) to obtain cepstral coefficients.

These steps capture the spectral envelope, which is important for distinguishing phonemes in speech.

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

"MFCCs transform audio to the Mel scale, applying log compression and cepstral transformation to align with human auditory characteristics." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Speech Feature Extraction

NEW QUESTION # 29

Huawei Cloud ModelArts is a one-stop AI development platform that supports multiple AI scenarios. Which of the following scenarios are supported by ModelArts?

- A. Object detection
- B. Speech recognition
- C. Image classification
- D. Video analytics

Answer: A,B,C,D

Explanation:

ModelArts provides an integrated environment for data labeling, model training, deployment, and management, supporting various AI application scenarios:

- * Image classification for categorizing visual content.
- * Object detection for locating and identifying multiple objects in images or video frames.
- * Speech recognition for converting speech to text.
- * Video analytics for automated video content analysis.

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

"ModelArts supports a wide range of AI tasks including image classification, object detection, speech recognition, and intelligent video analytics." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: ModelArts Overview

NEW QUESTION # 30

In natural language processing tasks, word vector evaluation is an important aspect for measuring the performance of a word embedding model. Which of the following statements about word vector evaluation are true?

- A. Word similarity tasks typically employ manually labeled datasets to evaluate word vectors, compute the cosine similarity between word vectors, and compare it with the manual labeling result.
- B. Word vector evaluation can be performed through intrinsic evaluation. Common methods include word similarity tasks and word analogy tasks.
- C. Extrinsic evaluation is the main method used for evaluating word vectors because it directly reflects the performance of word vectors in real-world application tasks.
- D. The word analogy task evaluates the capability of word vectors in capturing semantic relationships between words, for example, by determining whether "king - man + woman = ?" is close to "queen".

Answer: A,B,D

Explanation:

Word vector evaluation can be:

- * Intrinsic: Directly tests vector properties via word similarity and analogy tasks.
- * Extrinsic: Tests in downstream applications.
- * A: True - word similarity tasks use human-labeled datasets and cosine similarity.
- * B: True - intrinsic evaluations include similarity and analogy tasks.
- * C: True - analogy tests assess how well vectors capture semantic relationships.

* D:False - both intrinsic and extrinsic methods are valuable, but intrinsic methods are more common for initial evaluations.

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

"Intrinsic evaluations (similarity, analogy) test embedding quality directly, while extrinsic evaluations measure impact on real tasks."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Word Vector Evaluation

NEW QUESTION # 31

Which of the following statements about the multi-head attention mechanism of the Transformer are true?

- A. The concatenated output is fed directly into the multi-headed attention mechanism.
- B. Each header's query, key, and value undergo a shared linear transformation to obtain them.
- C. The multi-head attention mechanism captures information about different subspaces within a sequence.
- D. The dimension for each header is calculated by dividing the original embedded dimension by the number of headers before concatenation.

Answer: C,D

Explanation:

In the multi-head attention mechanism:

* A:True - the input embedding dimension is split across multiple heads, so each head operates on a lower-dimensional subspace before concatenation.

* B:True - having multiple attention heads allows the model to attend to information from different representation subspaces simultaneously.

* C:False - each head has its own learned linear transformations for queries, keys, and values.

* D:False - after concatenation, the result is passed through a final linear projection, not fed back into the attention module directly.

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

"Multi-head attention divides the embedding dimension across heads to learn from multiple subspaces in parallel, then concatenates and linearly projects the result." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Multi-Head Attention

NEW QUESTION # 32

In cases where the bright and dark areas of an image are too extreme, which of the following techniques can be used to improve the image?

- A. Inversion
- B. Grayscale stretching
- C. Grayscale compression
- D. Gamma correction

Answer: D

Explanation:

When the contrast between bright and dark areas is extreme, gamma correction is effective in adjusting luminance in a non-linear way to balance these extremes.

* If $\gamma < 1$, dark areas are brightened, highlights are compressed.

* If $\gamma > 1$, bright areas are emphasized, shadows are compressed. Other methods like grayscale stretching and compression target linear contrast changes, while inversion flips pixel values but doesn't balance extreme light/dark ranges effectively.

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

"Gamma correction adjusts image brightness non-linearly, suitable for correcting overly bright or overly dark regions, improving overall visibility." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Image Enhancement

NEW QUESTION # 33

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