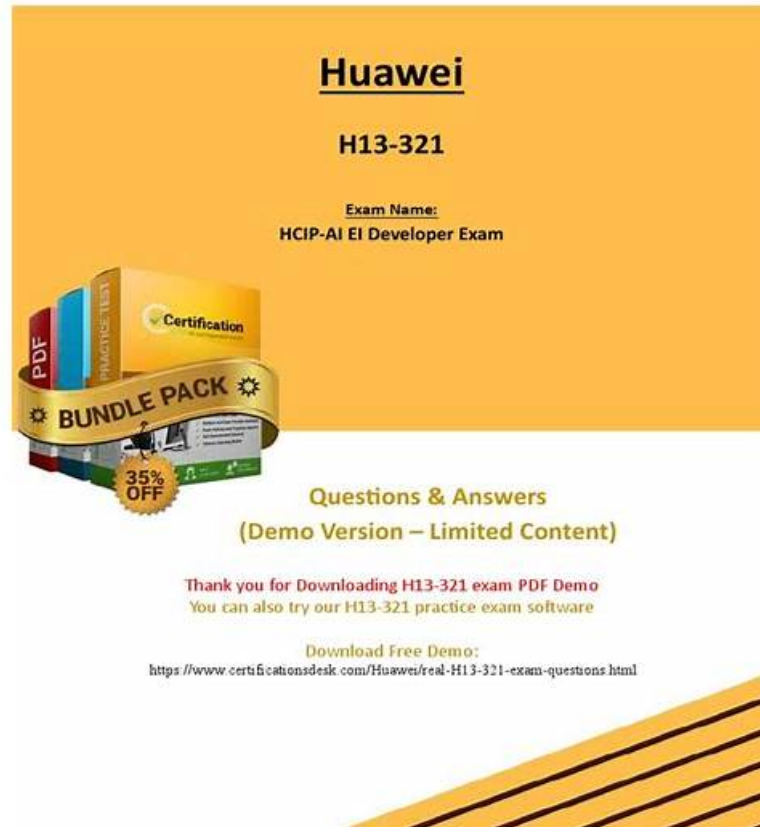



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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q55-Q60):

NEW QUESTION # 55

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. FALSE
- B. TRUE

Answer: B

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 # 56

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, the chi-square (χ^2) 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

CopyEdit

```
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 # 57

If OpenCV is used to read an image and save it to variable "img" during image preprocessing, (h, w) = img.shape[:2] can be used to obtain the image size.

- A. FALSE
- B. TRUE

Answer: B

Explanation:

In OpenCV, an image read into a variable such as img is represented as a NumPy array. The .shape attribute returns the dimensions in the format (height, width, channels). Using img.shape[:2] slices the first two elements, giving the height (h) and width (w). This method is a standard practice for quickly retrieving image dimensions in preprocessing workflows.

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

"OpenCV stores images as NumPy arrays. The shape property returns (height, width, channels). Accessing shape[2] returns the image height and width." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Image Reading and Writing with OpenCV

NEW QUESTION # 58

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

- A. FALSE
- B. TRUE

Answer: A

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 # 59

Which audio file formats can Huawei Cloud text-to-speech (TTS) generate?

- A. MP3
- B. AAC
- C. PCM
- D. WAV

Answer: A,C,D

Explanation:

Huawei Cloud's TTS service supports generating synthesized speech in multiple formats to meet different application requirements:

* WAV:High-quality, uncompressed audio format.

* MP3:Compressed format for efficient storage and streaming.

* PCM:Raw, uncompressed audio data for low-level processing.

AAC is a common format but is not supported by Huawei Cloud TTS as per the official specification for HCIP- AI EI Developer V2.5.

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

"Huawei Cloud TTS supports output in WAV, MP3, and PCM formats to balance audio quality and storage requirements."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Text-to-Speech Service

NEW QUESTION # 60

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