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Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q50-Q55):

NEW QUESTION # 50

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 # 51

Maximum likelihood estimation (MLE) requires knowledge of the sample data's distribution type.

- A. FALSE
- B. TRUE

Answer: B

Explanation:

Maximum likelihood estimation is a statistical method for estimating parameters of a probability distribution by maximizing the likelihood function. To apply MLE, the form of the probability distribution (e.g., normal, exponential) must be known in advance because the likelihood function is defined based on this distribution.

Without knowing the distribution type, the estimation process cannot be properly formulated.

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

"MLE assumes that the underlying probability distribution type of the sample data is known and uses it to construct the likelihood function for parameter estimation." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Statistical Parameter Estimation

NEW QUESTION # 52

In NLP tasks, transformer models perform well in multiple tasks due to their self-attention mechanism and parallel computing capability. Which of the following statements about transformer models are true?

- A. Transformer models outperform RNN and CNN in processing long texts because they can effectively capture global dependencies.
- B. Positional encoding is optional in a transformer model because the self-attention mechanism can naturally process the order information of sequences.
- C. Multi-head attention is the core component of a transformer model. It computes multiple attention heads in parallel to capture semantic information in different subspaces.
- D. A transformer model directly captures the dependency between different positions in the input sequence through the self-attention mechanism, without using the recurrent neural network (RNN) or convolutional neural network (CNN).

Answer: A,C,D

Explanation:

Transformers are designed for sequence modeling without recurrence or convolution.

* A:True - self-attention captures global dependencies efficiently, outperforming RNNs/CNNs in long text processing.

* B:True - multi-head attention computes multiple attention projections in parallel.

* C:True - the architecture is purely attention-based.

* D:False - positional encoding is required because self-attention does not inherently encode sequence order.

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

"The Transformer uses self-attention to model dependencies and multi-head attention to capture features in different subspaces. Positional encoding must be added to preserve sequence order." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Architecture

NEW QUESTION # 53

Vision transformer (ViT) performs well in image classification tasks. Which of the following is the main advantage of ViT?

- **A. The self-attention mechanism is used to capture global features of images, improving classification accuracy.**
- B. It can process high-resolution images to enhance classification accuracy.
- C. It can handle small datasets with minimal labeling required.
- D. It achieves fast convergence without using pre-trained models.

Answer: A

Explanation:

The Vision Transformer (ViT) applies the transformer architecture to image patches. Its key advantage is the use of self-attention to capture global dependencies and relationships between all parts of an image. This allows ViT to excel in classification accuracy, especially on large datasets with sufficient pre-training.

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

"ViT applies self-attention to image patches, enabling global feature extraction and improving classification performance compared to local receptive fields in CNNs." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Models in Vision

NEW QUESTION # 54

The mAP evaluation metric in object detection combines accuracy and recall.

- **A. FALSE**
- B. TRUE

Answer: A

Explanation:

The mAP (mean Average Precision) metric in object detection combines precision and recall, not accuracy and recall. mAP is calculated by averaging the Average Precision (AP) across all classes in a dataset. Precision measures how many predicted positives are correct, while recall measures how many actual positives are identified. Accuracy, on the other hand, is a general metric for classification tasks and is less suitable for object detection where class imbalance and localization are important.

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

"mAP evaluates object detection performance by considering both precision and recall across all classes, providing a balanced measure of detection accuracy and completeness." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Object Detection Metrics

NEW QUESTION # 55

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