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

NEW QUESTION # 21

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

- A. TRUE
- B. FALSE

Answer: A

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 # 22

Which of the following are object detection algorithms?

- A. R-CNN
- B. YOLO
- C. Faster-R-CNN
- D. SSD

Answer: A,B,C,D

Explanation:

The major families of object detection algorithms include:

- * R-CNN (Region-based CNN): Uses region proposals with CNN feature extraction.
- * YOLO (You Only Look Once): Performs real-time detection by predicting bounding boxes and class probabilities in a single pass.
- * SSD (Single Shot MultiBox Detector): Uses multiple feature maps for detecting objects at different scales in one pass.
- * Faster-R-CNN: Improves R-CNN with a Region Proposal Network for speed.

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

"Common object detection algorithms include R-CNN, Faster R-CNN, YOLO, and SSD, each using different approaches for balancing accuracy and speed." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Object Detection

NEW QUESTION # 23

Which of the following are the impacts of the development of large models?

- A. Large models will completely replace small and domain-specific models
- B. Model pre-training costs will be reduced
- C. The accuracy and efficiency of natural language processing tasks will improve
- D. Data privacy and security issues will be exacerbated

Answer: C,D

Explanation:

The emergence of large AI models (e.g., GPT, Pangu, BERT) has led to:

- * C: Improved accuracy and efficiency in NLP and other AI tasks because of their ability to capture deep semantic and contextual information.
- * D: Increased data privacy and security concerns, as large models require massive datasets which may contain sensitive or proprietary information. A is false - large models increase pre-training costs. B is false - small and domain-specific models still play important roles due to efficiency and deployment constraints.

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

"Large models improve task performance but raise privacy and security concerns. They do not necessarily reduce training cost or eliminate the need for smaller models." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Large Model Trends and Challenges

NEW QUESTION # 24

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. 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.
- B. Word vector evaluation can be performed through intrinsic evaluation. Common methods include word similarity tasks and word analogy tasks.
- C. 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".
- D. 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.

Answer: B,C,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 # 25

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

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

Answer: A,C

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 # 26

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