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NVIDIA Generative AI Multimodal Sample Questions (Q30-Q35):

NEW QUESTION # 30
You are working with a large dataset of images for training a generative model. The dataset contains a significant amount of noise and outliers. Which of the following data preprocessing techniques would be MOST effective in mitigating the impact of noise and outliers on the model's performance?

- A. Applying a Gaussian blur to all images.
- B. Using a robust statistics-based normalization technique (e.g., Z-score normalization with median and interquartile range).
- C. Clipping pixel values to a specific range (e.g., [0, 255]).
- D. Applying histogram equalization to all images.
- E. Converting all images to grayscale.

Answer: B

Explanation:
Robust statistics-based normalization techniques, such as Z-score normalization using the median and interquartile range (IQR), are less sensitive to outliers than traditional methods like mean and standard deviation. Clipping pixel values can help to limit the impact of extreme outliers, but it may also remove valid data. Histogram equalization and Gaussian blur can improve image quality, but they

are not specifically designed to handle outliers. Converting to grayscale reduces information but doesn't address noise specifically.

NEW QUESTION # 31
Consider the following code snippet using NVIDIA Triton Inference Server. What is the purpose of the 'sequence_batching' configuration?

- A. It enables batching of independent requests to improve throughput.
- B. It optimizes the model for specific hardware architectures.
- C. It enables dynamic batching based on request arrival times.
- D. It allows for processing sequences of inputs (e.g., time series data) by maintaining state between requests.
- E. It automatically scales the number of model instances based on the input load.

Answer: D

Explanation:
The 'sequence_batching' configuration in Triton Inference Server is designed to handle sequential data where the server needs to maintain state between requests. This is essential for tasks like time-series prediction or conversational AI where the context of previous inputs matters. A, E describe standard batching. C describes autoscaling and D describes model optimization.

NEW QUESTION # 32
Consider a scenario where you are building an autoencoder using a U-Net architecture. What loss function is generally considered MOST suitable for training this autoencoder, particularly when the goal is to generate high-quality images?

- A. Mean Squared Error (MSE) loss
- B. Structural Similarity Index Measure (SSIM) loss
- C. Hinge Loss
- D. Binary Cross-entropy loss
- E. Cross-entropy loss

Answer: A

Explanation:
Mean Squared Error (MSE) loss is commonly used for training autoencoders, including those based on IJ-Net architectures, when the goal is to reconstruct images. MSE measures the average squared difference between the original and reconstructed images. While SSIM focuses on structural similarity, MSE provides a more direct pixel-wise comparison. Cross-entropy and binary cross-entropy are more suitable for classification tasks.

NEW QUESTION # 33
A financial institution is developing a multimodal A1 system to detect fraudulent transactions by analyzing transaction details (text), user images, and audio recordings of phone calls. Which of the following strategies is MOST crucial for handling the missing data that frequently occurs across these modalities?

- A. Ignoring transactions with missing data to simplify the model's training process.
- B. Imputing missing data in each modality independently using modality-specific imputation techniques (e.g., mean imputation for numerical data, most frequent category for categorical data).
- C. Replacing missing data with a single, arbitrary placeholder value (e.g., -1 for numerical data, 'missing' for text) across all modalities.
- D. Using a modality dropout technique during training, randomly masking modalities to force the model to learn robust representations from incomplete data.
- E. Employing a joint imputation approach that leverages information from available modalities to predict and fill in missing values in other modalities.

Answer: D,E

Explanation:
Ignoring missing data or using simple imputation techniques can introduce bias and reduce the model's accuracy. A joint imputation approach is superior because it leverages the relationships between modalities to improve imputation accuracy. Modality dropout during training further enhances robustness to missing data in real-world scenarios.

NEW QUESTION # 34
You're building a system to translate customer service chat logs into summaries that a human agent can quickly review The chat logs are often informal, contain slang, and have grammatical errors. Which prompt engineering technique is MOST likely to improve the quality and accuracy of the summaries generated by a large language model (LLM)?

- A. Using a negative constraint prompt, explicitly stating what the LLM should not include in the summary (e.g., 'Do not include greetings or farewells.').
- B. Using chain-of-thought prompting to encourage the LLM to explain its reasoning process before generating the summary.
- C. Using a template prompt with predefined sections and keywords to guide the summarization process and ensure consistency across different chat logs.
- D. Using a zero-shot prompt with a simple instruction like 'Summarize this chat log.'
- E. Using a few-shot prompt with several examples of chat logs and their ideal summaries, explicitly demonstrating how to handle informality and errors.

Answer: A,B,C,E

Explanation:
Few-shot prompting provides the LLM with examples to learn from, allowing it to better handle the nuances of informal language and errors. Chain-of-thought helps the model reason step-by-step, leading to better summaries. Negative constraints prevent irrelevant information. Template prompts provide structure and consistency. A zero-shot prompt is less effective in this scenario due to the complexity of the input data.

NEW QUESTION # 35
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