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NVIDIA Generative AI Multimodal Sample Questions (Q81-Q86):

NEW QUESTION # 81
You're training a multimodal model for generating stories from images and audio. You use a Transformer architecture. During training, you notice that the model struggles to maintain long-range dependencies in the generated stories, leading to incoherent narratives. Which of the following techniques would be MOST effective in addressing this issue within the Transformer architecture?

- A. Using a smaller embedding dimension.
- B. Using only audio as input.
- C. Removing the self-attention mechanism.
- D. Incorporating positional encodings and increasing the attention window size.
- E. Reducing the number of layers in the Transformer.

Answer: D

Explanation:
Positional encodings help the Transformer understand the order of words in the sequence, which is crucial for maintaining coherence. Increasing the attention window size allows the model to attend to a larger context when generating each word, enabling it to capture longer-range dependencies. Reducing layers or embedding dimension would likely worsen the problem. Removing self-attention would defeat the purpose of using a Transformer. Positional encodings and attention window size are key to transformer performance with respect to long range dependencies.

NEW QUESTION # 82
A multimodal dataset consists of video footage of human actions and corresponding wearable sensor data (accelerometer, gyroscope). The goal is to predict the type of action being performed. However, the sensor data is noisy and often misaligned with the video frames. Consider the following code snippet designed to synchronize and clean the sensor data:
What is the primary purpose of the 'resample' function in this code, and what potential issues might arise from using a simple aggregation method during resampling?

- A. The 'resample' function aligns the sensor data to the video frame rate. Using is appropriate as it averages out the noise in the sensor data.
- B. The 'resample' function filters the sensor data and .mean() only returns the most relevant sensor data
- C. The 'resample' function aligns the sensor data to the video frame rate. Using '.mean()' might smooth out important peaks and valleys in the sensor data, potentially losing crucial information.
- D. The 'resample' function decreases the video framerate to the rate of the sensor. Using .mean()' is only useful if there is no noise in the sensor data
- E. The 'resample' function increases the sensor data frequency. Using .mean()' is only useful if there is no noise in the sensor data

Answer: C

Explanation:
The 'resample' function aligns the sensor data to the video frame rate, making the data streams compatible for analysis. However, using .mean()' during resampling can smooth out critical features in the time-series data, potentially leading to a loss of important information for action recognition. More sophisticated resampling techniques (e.g., interpolation, or using a median value) might be more appropriate.

NEW QUESTION # 83
You are tasked with optimizing a multimodal A1 model that processes both images and text. You observe significant latency during the image encoding phase using a pre-trained ResNet50 model. Which of the following techniques would be MOST effective in reducing latency while preserving accuracy, considering energy efficiency?

- A. Apply knowledge distillation, training a smaller, faster model to mimic the ResNet50 output.
- B. Disable GPU acceleration for image processing to reduce power consumption.
- C. Increase the batch size for image processing.
- D. Use full precision floating point operations throughout the ResNet50 model.
- E. Replace ResNet50 with a larger, more complex model like ResNeXt101.

Answer: A

Explanation:
Knowledge distillation involves training a smaller, more efficient model to approximate the behavior of a larger, more accurate model. This can significantly reduce latency without a major drop in accuracy. Increasing batch size (A) may increase throughput but doesn't necessarily reduce latency per image. Replacing with a larger model (C) will increase latency and power consumption. Using full precision (D) is less energy-efficient than using mixed precision or quantization. Disabling GPU acceleration (E) would drastically increase latency.

NEW QUESTION # 84
You're building a multimodal model to predict stock prices using news articles (text) and historical price data (time series). You observe that the model performs well on the training data but poorly on unseen dat a. Which of the following techniques would be MOST effective in addressing this issue?

- A. Use data augmentation techniques to generate more diverse variations of the existing data.
- B. Implement early stopping based on the performance of the model on a validation set.
- C. All of the above
- D. Increase the size of the training dataset by collecting more news articles and historical price data.
- E. Add L1 or L2 regularization to the model's parameters.

Answer: B

Explanation:
All the listed techniques combat overfitting. Increasing data size provides more examples. Regularization penalizes complex models. Early stopping prevents training too long on the training data. Data augmentation creates more robust and generalizable model by artifically expanding data through techniques like Tme series perturbation and Text paraphrasing.

NEW QUESTION # 85
You're designing a U-Net architecture for generating high-resolution medical images from low-resolution scans. Which of the following considerations are MOST crucial for maintaining fine-grained detail during the upsampling process, and how might NVIDIA's NeMo framework assist?

- A. Incorporating skip connections from the contracting path to the expanding path, allowing the network to leverage high-resolution features from earlier layers. NeMo provides modules for efficient skip connection implementation and management of feature map sizes.
- B. Ignoring the low resolution features and concentrate on better latent space sampling. NeMo can provide models to enhance sampling techniques.
- C. Using only transpose convolutional layers for upsampling to learn the optimal upsampling filters. NeMo offers optimized transpose convolution implementations for performance.
- D. Employing a very deep network architecture to capture complex relationships between pixels. NeMo aids in managing the complexity and training of such deep networks with optimized optimizers and distributed training capabilities.
- E. Using only bilinear interpolation in the upsampling layers to avoid introducing artifacts. NeMo can assist by providing pre-trained interpolation layers.

Answer: A

Explanation:
Skip connections are essential in U-Nets for preserving fine-grained detail. They allow the network to access high-resolution features learned in the contracting path during the upsampling process. NeMo's features for managing skip connections and feature map sizes can streamline the implementation. While transpose convolutions (D) can be useful, they are not the most crucial without skip connections. Bilinear interpolation alone is generally insufficient for high-resolution image generation. NeMo can aid with (C) but it's not as crucial as skip connections. (E) is incorrect because it is crucial to leverage information extracted during the downsampling process.

NEW QUESTION # 86
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