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NVIDIA Generative AI Multimodal Sample Questions (Q10-Q15):

NEW QUESTION # 10
Consider a multimodal emotion recognition system that uses both facial expressions and speech audio as input. You want to fuse the information from these two modalities. Which of the following fusion techniques would be most suitable if the modalities have significantly different temporal resolutions (e.g., facial expressions change more rapidly than overall vocal tone)?

- A. Feature Extraction (extracting features)
- B. Intermediate Fusion (using attention mechanisms to align features)
- C. Late Fusion (averaging probabilities from individual classifiers)
- D. Decision Fusion (majority voting based on modality predictions)
- E. Early Fusion (concatenating raw features)

Answer: B

Explanation:
Intermediate fusion, particularly with attention mechanisms, is well-suited for modalities with different temporal resolutions. Attention allows the model to dynamically align and weight the features from each modality based on their relevance at different time steps, addressing the temporal misalignment issue. Early fusion would be problematic as the temporal differences are not handled. Late fusion ignores the potential interactions between the modalities. Decision fusion suffers from the same issues as late fusion. Feature extraction is not fusion technique.

NEW QUESTION # 11
You are working on a project that involves training a large language model (LLM) on a massive dataset of text and code. You have limited GPU memory and need to optimize the training process. Which of the following techniques would be MOST effective in reducing memory consumption during training?

- A. Increasing the number of layers in the LLM.
- B. Using a higher precision data type (e.g., float64 instead of float32).
- C. Using a smaller learning rate.
- D. Gradient accumulation and mixed-precision training (e.g., using FP16 or BFloat16).
- E. Increasing the batch size.

Answer: D

Explanation:
Gradient accumulation allows you to simulate a larger batch size without increasing memory consumption by accumulating gradients over multiple smaller batches. Mixed-precision training reduces the memory footprint of weights and activations. Increasing the batch size or using higher precision data types increases memory consumption. Using a smaller learning rate doesn't directly affect memory. More layers will also increase memory usage.

NEW QUESTION # 12
Consider a scenario where you're training a generative A1 model to create realistic images from text descriptions. You notice that the generated images lack fine-grained details and appear blurry. Which of the following loss functions or training techniques could you employ to improve the image quality and sharpness?

- A. Increasing the batch size during training to improve gradient estimation.
- B. Perceptual loss, which compares the feature representations of the generated and target images in a pre-trained CNN.
- C. L1 loss between the generated image and the target image.
- D. Cross-entropy loss between the generated image and the text description.
- E. Mean Squared Error (MSE) loss between the generated image and a downscaled version of the target image.

Answer: B

Explanation:
Perceptual loss is specifically designed to capture high-level perceptual similarities between images, leading to sharper and more realistic outputs- MSE and L1 losses tend to produce blurry images as they penalize pixel-wise differences without considering perceptual similarity. Cross-entropy loss is relevant for classification tasks, not image generation directly from text descriptions. Increasing the batch size can improve training stability but does not directly address the lack of fine-grained details.

NEW QUESTION # 13
You're using a diffusion model to generate high-resolution images. You notice that the generated images often contain artifacts and inconsistencies. Which of the following techniques could help improve the image quality?

- A. Decreasing the number of diffusion steps during sampling.

- B. Using a smaller image size during training.
- C. Increasing the number of diffusion steps during training.
- D. Training with a larger batch size.
- E. Employing classifier-free guidance during sampling.

Answer: C,E

Explanation:
Increasing the number of diffusion steps allows the model to gradually refine the image and reduce artifacts. Classifier-free guidance provides a way to control the generation process and improve image quality by conditioning on a specific class or attribute. Training with a larger batch size may improve training stability but doesn't directly address artifact reduction. A smaller image size will reduce computational cost but doesn't necessarily improve quality at the desired resolution. Decreasing the number of diffusion steps can lead to lower-quality images with more artifacts.

NEW QUESTION # 14
You are fine-tuning a pre-trained multimodal model for a visual question answering (VQA) task. You notice that the model performs well on common questions but struggles with questions requiring reasoning about object relationships (e.g., 'Is the object to the left of the table bigger than the one on the table?'). What data augmentation technique would MOST likely improve performance on these challenging questions?

- A. Adding Gaussian noise to the images.
- B. Rotating the images.
- C. Replacing objects in the images with other objects.
- D. Randomly cropping the images.
- E. Generating synthetic images with varying object arrangements and relationships, paired with corresponding questions and answers.

Answer: E

Explanation:
Generating synthetic data specifically designed to challenge the model's reasoning abilities about object relationships is the most effective way to improve performance on those types of questions. Cropping, noise, and object replacement might help with robustness, but not with relational reasoning. Rotation won't inherently improve reasoning about relationships.

NEW QUESTION # 15
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