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NVIDIA Generative AI Multimodal Sample Questions (Q207-Q212):

NEW QUESTION # 207
Which of the following techniques are MOST relevant to optimizing the energy efficiency of a large multimodal generative A1 model deployed on NVIDIA GPUs? (Select TWO)

- A. Increasing the size of the hidden layers in the transformer architecture.
- B. Adding more data augmentation techniques to the training process.
- C. Knowledge distillation, transferring the knowledge to a smaller model.
- D. Implementing model parallelism across multiple GPUs without optimizing communication overhead.
- E. Using mixed precision training (e.g., FP16) to reduce memory usage and computation.

Answer: C,E

Explanation:
Knowledge distillation reduces the model size, directly decreasing energy consumption. Mixed precision training reduces memory bandwidth and computation, leading to significant energy savings. Increasing hidden layer size increases computational cost and energy consumption. Data augmentation can improve accuracy, but not energy efficiency. Poorly implemented model parallelism can increase communication overhead, negating any energy savings.

NEW QUESTION # 208
You're building a system that generates images from text descriptions, incorporating spatial relationships. For instance, the text 'A red ball is to the left of a blue cube' should result in an image where the red ball is actually positioned to the left of the blue cube. Which of the following approaches would be MOST suitable for encoding and utilizing spatial information in this text-to-image generation process?

- A. Augmenting the text encoder with explicit spatial relation embeddings that represent the relative positions between objects. Use these embeddings to modulate the image generation process (e.g., through attention mechanisms).
- B. Applying a pre-trained object detector to the generated image and penalizing the model if the spatial relationships are incorrect
- C. Using a bag-of-words representation for the text, ignoring word order and spatial relationships.
- D. Relying solely on the image decoder to learn spatial relationships implicitly from the text description during training.
- E. Using a standard Transformer architecture for text encoding without any specific spatial awareness mechanisms

Answer: A

Explanation:
Explicitly encoding spatial relations in the text encoder is the most direct way to ensure the model understands and utilizes this information during image generation. Standard Transformers might learn some spatial relationships implicitly, but augmenting them with spatial embeddings makes the process more robust and controllable. Relying solely on the decoder or using bag-of-words ignores crucial spatial information. Penalizing the model after generation is inefficient; we want to guide the generation process itself.

NEW QUESTION # 209
You're training a VQA (Visual Question Answering) model. During evaluation, you notice the model performs well on common object recognition tasks but struggles with questions requiring reasoning about object relationships or scene understanding. What are the MOST effective strategies to improve the model's performance on these complex reasoning tasks? (Choose two)

- A. Replace the LSTM with a simpler RNN in the question encoder.
- B. Use a more sophisticated attention mechanism that attends to relevant image regions based on the question.
- C. Train the model on a larger dataset with more diverse and complex questions/answers.
- D. Decrease the learning rate.
- E. Increase the size of the image embedding.

Answer: B,C

Explanation:
More sophisticated attention mechanisms help the model focus on relevant image regions. A larger, more diverse dataset provides the model with more examples of complex reasoning scenarios. Increasing the image embedding size may help but is not as targeted. Decreasing the learning rate is a general optimization technique, and using a simpler RNN would likely degrade performance.

NEW QUESTION # 210
Consider the following code snippet used within a U-Net architecture. What is its purpose?
torch.cat ([up, skip], dim=1)

- A. It concatenates the 'up' and 'skip' tensors along the channel dimension.
- B. It performs a matrix multiplication between the 'up' and 'skip' tensors.
- C. It multiplies the 'up' and 'skip' tensors element-wise.
- D. It subtracts the 'skip' tensor from the 'up' tensor.
- E. It performs an element-wise addition of the 'up' and 'skip' tensors.

Answer: A

Explanation:
The 'torch.cat([up, skip], dim=1) function concatenates two tensors, 'up' and 'skip' , along the channel dimension (dim=1) In the context of a U-Net, 'up' represents the upsampled feature map from the decoder path, and 'skip' represents the corresponding feature map from the encoder path. Concatenating them allows the decoder to combine both coarse-grained and fine-grained information for better image reconstruction.

NEW QUESTION # 211
You are building a generative A1 model that combines text and image inputs to generate novel images. You have access to NVIDIA NeMo and want to leverage its pre-trained models and tools. Which NeMo modules or features would be MOST beneficial for this multimodal task? (Select all that apply)

- A. NeMo's pre-trained language models for text understanding and feature extraction.
- B. NeMo's TTS models for generating image descriptions.
- C. NeMo's support for PyTorch Lightning for efficient training and scaling.
- D. NeMo's core building blocks for constructing custom neural network architectures.
- E. NeMo's ASR models for processing text inputs.

Answer: A,C,D

Explanation:
NeMo's core building blocks simplify the creation of complex neural networks. PyTorch Lightning integration streamlines the training process, and NeMo's pre-trained language models provide a strong foundation for understanding and processing text inputs. ASR and TTS are irrelevant for the pure text and image to image creation. NeMo's core building blocks are fundamental to the framework.

NEW QUESTION # 212
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