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NVIDIA Generative AI Multimodal Sample Questions (Q32-Q37):

NEW QUESTION # 32
Which of the following statements accurately describes the role of attention mechanisms in Transformer-based multimodal models? (Select all that apply)

- A. Attention mechanisms are primarily used to reduce the computational cost of processing long sequences.
- B. Attention mechanisms allow the model to focus on the most relevant parts of the input sequence when generating the output.
- C. Attention mechanisms enable the model to learn relationships between different modalities, such as images and text.

- D. Attention mechanisms prevent vanishing gradients during training of deep neural networks.
- E. Attention mechanisms are used to compress the input sequence into a fixed-length vector representation.

Answer: B,C

Explanation:
Attention mechanisms enable the model to selectively focus on relevant parts of the input and learn relationships between modalities. They don't compress the input into a fixed-length vector, nor are they primarily for reducing computational cost or preventing vanishing gradients (although they can indirectly help with the latter).

NEW QUESTION # 33
Which of the following are key architectural features of a U-Net that make it suitable for image generation tasks, particularly when starting from pure noise?

- A. Use of convolutional layers in both encoder and decoder paths.
- B. A bottleneck layer that compresses the encoded information.
- C. Progressive upsampling in the decoder path to reconstruct the image.
- D. A fully connected layer at the end for classification.
- E. Skip connections between corresponding encoder and decoder layers.

Answer: A,B,C,E

Explanation:
U-Nets excel at image generation due to their skip connections, convolutional layers, bottleneck layer, and upsampling techniques. Skip connections preserve fine-grained details from earlier encoder layers during decoding. Convolutional layers extract spatial features. The bottleneck compresses information, and upsampling reconstructs the image to the original resolution. Fully connected layers are generally not used for image generation but for classification.

NEW QUESTION # 34
In the context of generative models, what is the primary purpose of using a normalizing flow?

- A. To introduce non-linearity into the encoder network of a VAE
- B. To transform a simple probability distribution (e.g., Gaussian) into a more complex and flexible distribution that can better model the data.
- C. To reduce the dimensionality of the input data before feeding it to a generator network.
- D. To improve the computational efficiency of backpropagation.
- E. To regularize the training of the discriminator in a GAN.

Answer: B

Explanation:
Normalizing flows are used to transform a simple probability distribution into a complex one by applying a series of invertible transformations. This allows the model to learn more complex data distributions and generate more realistic samples.

NEW QUESTION # 35
A multimodal AI model, designed to translate sign language videos into text, is consistently failing on specific gestures that involve rapid hand movements. Which optimization technique targeting temporal data processing would be MOST effective to apply?

- A. Use a recurrent neural network (RNN) or Transformer with attention mechanisms specifically designed for handling sequential data.
- B. Perform image segmentation to isolate the hands in each frame.
- C. Downsample the video frames to reduce computational complexity.
- D. Apply frame interpolation techniques to increase the video's frame rate.
- E. Increase the batch size to improve GPU utilization during training.

Answer: A

Explanation:

RNNs and Transformers, especially those with attention, are designed to capture temporal dependencies in sequential data like video. Increasing frame rate (B) might help slightly, but doesn't address the fundamental issue of modeling sequential data effectively. The other options are either irrelevant or detrimental to capturing the rapid hand movements. RNNs/Transformers capture the movement itself, which is key here. Image segmentation could be a preprocessing step, but RNN/Transformer is the core optimization.

NEW QUESTION # 36
You are tasked with evaluating a multimodal A1 model that combines image and text inputs to generate product descriptions. You observe that the model performs well on common product categories (e.g., clothing, electronics) but struggles with niche categories (e.g., antique furniture, scientific instruments). Which of the following strategies would be MOST effective in improving the model's performance on niche categories?

- A. Fine-tune the model on a dataset specifically curated for niche product categories.
- B. Replace the image encoder with a more powerful architecture.
- C. Decrease the learning rate during training.
- D. Implement data augmentation techniques to create synthetic data for niche categories.
- E. Increase the overall size of the training dataset.

Answer: A

Explanation:
Fine-tuning on a niche dataset addresses the specific lack of knowledge about those categories. While other options might offer marginal improvements, targeted fine-tuning is the most direct and effective approach. Data augmentation (E) could help, but is secondary to using real-world data for fine-tuning.

NEW QUESTION # 37
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