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NVIDIA Generative AI Multimodal Sample Questions (Q241-Q246):

NEW QUESTION # 241

You are experimenting with a multimodal model that takes both text and audio as input. During evaluation, you notice that the model is heavily biased towards the text input, largely ignoring the audio. Which of the following techniques could you employ to mitigate this modality imbalance and encourage the model to effectively utilize both inputs? (Select all that apply)

- A. Reduce the size of the text encoder.
- B. Increase the learning rate for the audio encoder.
- C. Replace audio features with raw audio waveform.
- D. Apply modality-specific dropout to the text encoder.
- E. Use a contrastive loss function that encourages alignment between text and audio representations.

Answer: D,E

Explanation:
Modality imbalance is a common issue in multimodal learning. Applying modality-specific dropout to the dominant modality (text, in this case) forces the model to rely more on the other modality (audio). A contrastive loss directly encourages the model to learn aligned representations between the two modalities. Increasing the audio encoder's learning rate (A) might help, but it is less targeted than dropout or contrastive loss. Reducing the text encoder size (D) is unlikely to be helpful in a controlled way. Replacing Audio features with raw waveform might introduce noise.

NEW QUESTION # 242
When deploying a large multimodal model to a resource-constrained environment (e.g., an edge device), which optimization techniques are MOST crucial to consider? (Select all that apply)

- A. Pruning to remove less important connections from the model.
- B. Model quantization to reduce the model's memory footprint and computational requirements.
- C. Increasing the batch size to improve throughput.
- D. Adding more layers to the model to improve accuracy.
- E. Knowledge distillation to transfer knowledge from a larger, more accurate model to a smaller, faster model.

Answer: A,B,E

Explanation:
Model quantization, knowledge distillation, and pruning are all effective techniques for reducing the size and computational cost of a model, making it suitable for deployment in resource-constrained environments. Increasing the batch size would typically increase the memory usage. Adding layers would only increase the size.

NEW QUESTION # 243
You are building a multimodal generative A1 model that combines text, images, and audio. You notice that the model performs well on text and images but struggles with audio, particularly in noisy environments. Which of the following strategies would be MOST effective in improving the model's performance with audio data?

- A. Increase the learning rate for the audio modality during training.
- B. Use transfer learning by pre-training the audio component of the model on a large audio dataset.
- C. Reduce the dimensionality of the audio features to simplify the learning task.
- D. Decrease the weight of the audio modality in the loss function.
- E. Apply data augmentation techniques specifically designed for audio, such as adding noise or varying the speed and pitch.

Answer: B,E

Explanation:
Data augmentation (C) increases the robustness of the model to variations in audio, including noise. Transfer learning (E) allows the model to leverage knowledge from a large, pre-existing audio dataset, improving its initial performance.

NEW QUESTION # 244
You're building a multimodal model to generate captions for videos. You've noticed that your model struggles to capture temporal relationships and sequential dependencies in the video frames. Which of the following architectures or techniques would be BEST suited to address this?

- A. Principal Component Analysis (PCA) to reduce dimensionality of each frame before feeding to the decoder
- B. A Multilayer Perceptron (MLP) trained on flattened video frames.
- C. A combination of a CNN to extract features from individual frames, followed by a Recurrent Neural Network (RNN) like LSTM or GRU to model temporal dependencies between the extracted features.
- D. A standard Convolutional Neural Network (CNN) applied independently to each frame.
- E. A 3D Convolutional Neural Network (3D CNN) that processes multiple frames as a volume.

Answer: C

Explanation:
RNNs, specifically LSTMs and GRUs, are designed to handle sequential data and capture temporal relationships. Combining a CNN for feature extraction with an RNN allows the model to process individual frames and then model the dependencies between them. 3D CNNs can also capture temporal information, but can be computationally expensive. Other options don't explicitly address the temporal aspect.

NEW QUESTION # 245
You are building a generative model that takes both image and text input to generate novel images. You are using a Variational Autoencoder (VAE) architecture with separate encoders for images and text. After training, you observe that the generated images are heavily influenced by the image input and barely incorporate the text information. Which of the following techniques would MOST likely improve the incorporation of text information into the generated images?

- A. Train two separate VAE models. One for Text and another for images.
- B. Decreasing the capacity of the text encoder.
- C. Increasing the capacity of the image encoder and decoder.
- D. Removing the text encoder and only using the image encoder.
- E. Using a cross-attention mechanism in the decoder to allow the image features to attend to the text features during image generatiom

Answer: E

Explanation:
A cross-attention mechanism allows the image features to selectively attend to the relevant parts of the text features during the image generation process. This enables the model to effectively incorporate the text information into the generated images- Increasing the capacity of the image encoder/decoder might further bias the model towards the image input Decreasing the capacity of the text encoder would further reduce the influence of text. Removing the text encoder is obviously not a solution- Training two separate VAE models won't generate correlated Image and Text.

NEW QUESTION # 246
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