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NVIDIA Generative AI Multimodal Sample Questions (Q364-Q369):

NEW QUESTION # 364
You are working with a multimodal dataset containing images and corresponding text descriptions. You want to train a model to generate text descriptions for new images. You decide to use a transformer-based architecture with separate encoders for images and text. How should you effectively fuse the image and text representations to enable cross-modal interaction?

- A. Use a cross-attention mechanism where the text decoder attends to the image encoder's hidden states and vice-versa.

- B. Train the image and text encoders separately and then combine their outputs using a linear layer.
- C. Average the final hidden states of the image and text encoders and feed the result into a decoder.
- D. Multiply the final hidden states of the image and text encoders and feed them into a decoder.
- E. Concatenate the final hidden states of the image and text encoders and feed them into a decoder.

Answer: A

Explanation:
Cross-attention allows the decoder to selectively attend to relevant parts of both the image and text representations, enabling fine-grained interaction between the modalities. Concatenation or averaging simply combines the representations without allowing for selective attention. Training the encoders separately and then combining their outputs doesn't allow for cross modal interaction during training. Multiply operation is not standard and is not efficient.

NEW QUESTION # 365
Given the following code snippet using NVIDIA Triton Inference Server for deploying a multimodal model:

```
model_repository: /path/to/model_repository platform: "ensemble" max_batch_size: 8 input [ { name: "text_input" data_type:
TYPE_STRING dims: [ 1 ] format: FORMAT_NONE }, { name: "image_input" data_type: TYPE_FP32 dims: [ 3, 224, 224 ] format:
FORMAT_NCHW } ] output [ { name: "output_label" data_type: TYPE_STRING dims: [ 1 ] format: FORMAT_NONE } ]
```

What does 'format: FORMAT_NCHW' signify for the 'image_input'?

- A. The image data is in a compressed JPEG format.
- B. The image data is represented as a NumPy array.
- C. The image data is in a channel-last format (Number of Images, Height, Width, Channels).
- D. The image data is in a channel-first format (Number of Images, Channels, Height, Width).
- E. The image data is normalized to a range between 0 and 1.

Answer: D

Explanation:
'FORMAT_NCHW' specifies that the image data is organized in a channel-first format, where the dimensions represent (Number of Images, Channels, Height, Width). This is a common format used in deep learning frameworks like PyTorch. Other options are incorrect because they relate to different aspects of image data representation or format.

NEW QUESTION # 366
You are working on a Generative A1 Multimodal model that takes text and audio as input and generates a video. During training, you observe that the generated videos often lack coherence with the input text. What are the potential issues you would investigate? (Select THREE)

- A. Insufficient regularization in the generator network.
- B. The training dataset does not contain enough diverse examples of text, audio, and video combinations.
- C. The discriminator network is too powerful, leading to mode collapse.
- D. Lack of a strong conditioning mechanism to guide the video generation based on the input text and audio.
- E. The input audio is too loud.

Answer: A,B,D

Explanation:
Insufficient regularization can cause overfitting and lack of generalization, leading to incoherence. A weak conditioning mechanism means the model isn't effectively using the input text to guide the video generation. A lack of diverse training examples limits the model's ability to learn the relationships between text, audio, and video. A too-powerful discriminator can lead to mode collapse, but primarily affects diversity, not necessarily coherence directly. Input audio loudness is a preprocessing issue, not a fundamental architectural problem.

NEW QUESTION # 367
A financial institution is developing a multimodal A1 system to detect fraudulent transactions by analyzing transaction details (text), user images, and audio recordings of phone calls. Which of the following strategies is MOST crucial for handling the missing data that frequently occurs across these modalities?

- A. Employing a joint imputation approach that leverages information from available modalities to predict and fill in missing

values in other modalities.
- B. Using a modality dropout technique during training, randomly masking modalities to force the model to learn robust representations from incomplete data.
- C. Ignoring transactions with missing data to simplify the model's training process.
- D. Imputing missing data in each modality independently using modality-specific imputation techniques (e.g., mean imputation for numerical data, most frequent category for categorical data).
- E. Replacing missing data with a single, arbitrary placeholder value (e.g., -1 for numerical data, 'missing' for text) across all modalities.

Answer: A,B

Explanation:
Ignoring missing data or using simple imputation techniques can introduce bias and reduce the model's accuracy. A joint imputation approach is superior because it leverages the relationships between modalities to improve imputation accuracy. Modality dropout during training further enhances robustness to missing data in real-world scenarios.

NEW QUESTION # 368
In the context of generative models, what is the primary purpose of using a normalizing flow?

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

Answer: E

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 # 369
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