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NVIDIA Generative AI Multimodal Sample Questions (Q195-Q200):

NEW QUESTION # 195

You are tasked with building a multimodal generative AI model that takes an image and a text prompt as input and generates a corresponding audio description. The image data is processed with a Vision Transformer (ViT), the text prompt is processed with a Transformer, and you need to fuse these modalities to generate the audio. Which of the following fusion strategies would be MOST appropriate for this task, considering the need for coherent and contextually relevant audio generation?

- A. Train separate models for image-to-audio and text-to-audio and then average their predicted audio features.
- B. Use a cross-attention mechanism where the ViT's feature maps attend to the Transformer's hidden states at multiple layers.
- C. Apply a simple addition or element-wise multiplication to the final hidden states of the ViT and the Transformer.
- D. Concatenate the final hidden states of the ViT and the Transformer and feed them into a fully connected layer to generate audio features.
- E. Fine-tune a pre-trained text-to-audio model using the image features as a conditioning signal.

Answer: B,E

Explanation:

Cross-attention allows the model to selectively focus on the most relevant parts of the image based on the text prompt, enabling it to generate more coherent and contextually relevant audio. Fine-tuning a pretrained text-to-audio model is a strong approach by leveraging existing knowledge of audio generation and guiding it with visual input. Simple concatenation or addition may not capture the complex relationships between modalities. Averaging predictions from separate models doesn't ensure coherence between the image and text. It is better to fine tune existing LLM models or build a fresh model from cross-attention between images and text to predict the final audio.

NEW QUESTION # 196

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. Train the image and text encoders separately and then combine their outputs using a linear layer.
- B. Multiply the final hidden states of the image and text encoders and feed them into a decoder.
- C. Average the final hidden states of the image and text encoders and feed the result into a decoder.
- D. Concatenate the final hidden states of the image and text encoders and feed them into a decoder.
- E. Use a cross-attention mechanism where the text decoder attends to the image encoder's hidden states and vice-versa.

Answer: E

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 # 197

You are developing a system to summarize patient medical records, which include doctor's notes (text), lab results (time-series data), and X-ray images. Which of the following techniques would be MOST effective in integrating these diverse data types to generate a coherent and comprehensive summary?

- A. Use a multimodal transformer model that can process text, time-series, and image data as input, creating a joint representation for summarization.
- B. Convert all data types to text using OCR and other techniques, then train a single text summarization model.
- C. Ignore the lab results and X-ray images and focus only on summarizing the doctor's notes.
- D. Train separate summarization models for each data type and concatenate the resulting summaries.
- E. Use separate summarization models, weigh them by their perceived information content and average.

Answer: A

Explanation:

A multimodal transformer model is designed to handle different data types as input and learn relationships between them, generating a coherent and comprehensive summary. Other options may lead to loss of information or a disjointed summary.

NEW QUESTION # 198

You are analyzing a dataset of customer reviews for a new product using Natural Language Processing (NLP). The dataset contains both positive and negative reviews, but a significant portion of the negative reviews uses sarcasm. Which of the following NLP techniques would be MOST effective in accurately identifying the sentiment expressed in sarcastic reviews?

- A. Using a rule-based system that identifies keywords associated with positive or negative sentiment.
- B. Fine-tuning a pre-trained transformer model (e.g., BERT, RoBERTa) on a dataset of sarcastic and non-sarcastic reviews.
- C. Sentiment lexicon-based approach.
- D. Bag-of-words model with TF-IDF weighting.
- E. Calculating the average word embedding for each review.

Answer: B

Explanation:

Pre-trained transformer models capture contextual information and complex relationships between words, which is crucial for detecting sarcasm. Bag-of-words, sentiment lexicons, and rule-based systems rely on individual words or simple patterns and are easily fooled by sarcasm. Averaging word embeddings loses the contextual information vital for sarcasm detection.

NEW QUESTION # 199

You are building a multimodal emotion recognition system that takes both facial expressions (images) and speech audio as input. During development, you observe that the model is heavily biased towards the audio modality, effectively ignoring the visual input. Which technique would be the LEAST effective in mitigating this modality bias?

- A. Adversarial training to make each modality indistinguishable.
- B. Reweighting the loss function to penalize errors made based on the less dominant modality (image).
- C. Modality dropout: Randomly dropping out one of the modalities during training.
- D. Gradient blending: Adjusting the gradients from each modality based on their relative importance.
- E. Increasing the complexity of the audio processing branch and simplifying the image processing branch of the model.

Answer: E

Explanation:

Increasing the audio branch's complexity while simplifying the image branch would actually exacerbate the modality bias towards audio. The other techniques (modality dropout, gradient blending, loss reweighting, and adversarial training) are all strategies designed to encourage the model to utilize both modalities more evenly. Increasing the model parameters of one mode leads to over-representation of that mode.

NEW QUESTION # 200

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