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NVIDIA Generative AI Multimodal Sample Questions (Q77-Q82):

NEW QUESTION # 77

A financial institution is developing a multimodal AI 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. Using a modality dropout technique during training, randomly masking modalities to force the model to learn robust representations from incomplete data.
- B. Employing a joint imputation approach that leverages information from available modalities to predict and fill in missing values in other modalities.
- C. 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).
- D. Replacing missing data with a single, arbitrary placeholder value (e.g., -1 for numerical data, 'missing' for text) across all modalities.
- E. Ignoring transactions with missing data to simplify the model's training process.

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 # 78

You are evaluating a Generative AI model for image captioning. Which of the following metrics is MOST appropriate for assessing the semantic similarity between the generated captions and the ground truth captions?

- A. BLEU score
- B. Perplexity
- C. Inception Score
- D. ROUGE score
- E. CIDEr score

Answer: E

Explanation:

CIDEr (Consensus-based Image Description Evaluation) is specifically designed for image captioning and is highly correlated with human judgments of caption quality. While BLEU and ROUGE are useful for general text generation, CIDEr excels at capturing semantic similarity in image captions. Inception Score assesses the quality of generated images, not captions, and Perplexity measures the uncertainty of a language model.

NEW QUESTION # 79

In a multimodal sentiment analysis task involving text and images, you find that your model performs well on datasets with clear emotional cues in both modalities but struggles on datasets where the sentiment is subtle or requires nuanced understanding. Which of the following techniques would be MOST helpful in improving the model's performance on these more challenging datasets?

- A. Randomly flip the images during training
- B. Increase the size of the training dataset.

- C. Implement a contrastive learning approach, training the model to distinguish between samples with similar and dissimilar sentiments.
- D. Reduce the learning rate.
- E. Use a simpler model architecture.

Answer: C

Explanation:

Contrastive learning helps the model learn more robust and discriminative representations by explicitly training it to distinguish between samples with similar and dissimilar sentiments. This is particularly useful for nuanced sentiment analysis. Increasing the dataset size or reducing the learning rate may help to a lesser extent. A simpler model architecture would likely worsen the performance.

NEW QUESTION # 80

Consider a multimodal emotion recognition system that uses both facial expressions and speech audio as input. You want to fuse the information from these two modalities. Which of the following fusion techniques would be most suitable if the modalities have significantly different temporal resolutions (e.g., facial expressions change more rapidly than overall vocal tone)?

- A. Feature Extraction (extracting features)
- B. Early Fusion (concatenating raw features)
- C. Intermediate Fusion (using attention mechanisms to align features)
- D. Decision Fusion (majority voting based on modality predictions)
- E. Late Fusion (averaging probabilities from individual classifiers)

Answer: C

Explanation:

Intermediate fusion, particularly with attention mechanisms, is well-suited for modalities with different temporal resolutions. Attention allows the model to dynamically align and weight the features from each modality based on their relevance at different time steps, addressing the temporal misalignment issue. Early fusion would be problematic as the temporal differences are not handled. Late fusion ignores the potential interactions between the modalities. Decision fusion suffers from the same issues as late fusion. Feature extraction is not fusion technique.

NEW QUESTION # 81

Consider a scenario where you want to use a Transformer model for generating music. Which of the following modifications to the standard Transformer architecture would be most beneficial for capturing the long-range dependencies and musical structure inherent in music?

- A. Implementing relative positional embeddings to encode the relationships between notes based on their relative positions in the sequence.
- B. Removing the feed forward layers after the attention mechanism.
- C. Reducing the number of attention heads in the multi-head attention mechanism.
- D. Using a smaller embedding dimension for the musical notes.
- E. Using a smaller vocabulary of musical notes to reduce computational complexity.

Answer: A

Explanation:

Relative positional embeddings are particularly effective for capturing relationships based on relative positions, which is crucial in music where the intervals and relationships between notes are significant. Standard positional embeddings only encode absolute position. Capturing those relationships greatly improves model accuracy. While the other options might change behavior, they wouldn't specifically improve sequence modeling ability.

NEW QUESTION # 82

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