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NVIDIA Generative AI Multimodal Sample Questions (Q192-Q197):

NEW QUESTION # 192

You are training a multimodal model that combines text and images. You observe that the model is heavily biased towards the text modality and largely ignores the image data. Which of the following strategies could you use to address this modality imbalance? (Select all that apply)

- A. Reduce the dimensionality of the image features to match the dimensionality of the text embeddings.

- B. Use a modality-specific loss weighting scheme, assigning a higher weight to the loss component derived from the image data.
- C. Oversample the image data during training.
- D. Decrease the learning rate for the text-related parameters of the model.
- E. Increase the learning rate for the image-related parameters of the model.

Answer: B,C,D,E

Explanation:

Options A, B, C, and D are effective strategies for addressing modality imbalance. Increasing the learning rate for the underutilized modality (image) or decreasing it for the dominant one (text) encourages the model to pay more attention to the image data. Modality-specific loss weighting directly emphasizes the importance of the image modality during training. Oversampling image data ensures that the model sees more image examples and is less likely to be biased towards the text modality. Option E might lead to loss of important information from the image modality.

NEW QUESTION # 193

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

Answer: E

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 # 194

You're building a multimodal sentiment analysis model using text and audio data. You observe that the model's performance is significantly worse on audio samples from noisy environments. Which of the following data augmentation techniques would be MOST effective for improving the model's robustness to noisy audio?

- A. Random Cropping
- B. Mixing different types of noise (e.g., background noise, speech babble) at varying signal-to-noise ratios (SNRs) to the audio data.
- C. Adding random noise to the text data.
- D. Applying time stretching to the audio data.
- E. Applying pitch shifting to the audio data.

Answer: B

Explanation:

Mixing different types of noise at varying SNRs is the most effective data augmentation technique for improving robustness to noisy audio because it directly simulates the real-world noise conditions that the model will encounter during deployment. This helps the model learn to extract meaningful features from noisy audio. Adding noise to the text data is not relevant to the audio noise issue. Time stretching and pitch shifting are useful for augmenting audio data, but they do not directly address the noise problem. Random cropping is primarily for image data.

NEW QUESTION # 195

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

Answer: B,D,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 # 196

You are developing a multimodal model that processes text and time-series data to predict equipment failure. The text data consists of maintenance logs, and the time-series data consists of sensor readings. You observe that the model performs poorly when there are abrupt changes in sensor readings that are not reflected in the maintenance logs. How would you address this data integration challenge? (Select all that apply).

- A. Ignore the sensor readings and focus only on the maintenance logs.
- B. All of the above
- C. Downsample the time-series data to match the frequency of the text data.
- D. Implement a change-point detection algorithm to identify abrupt changes in sensor readings and generate synthetic text descriptions of these events to augment the maintenance logs.
- E. Use a transformer-based model with cross-attention to allow the model to attend to relevant time-series features when processing the text data.

Answer: D,E

Explanation:

Implementing change-point detection and generating synthetic text descriptions helps bridge the gap between the two modalities. Cross-attention allows the model to dynamically integrate information from both modalities. Downsampling the time series data could lead to loss of information. Option E is incorrect because downsampling may hide crucial details in the time-series data.

NEW QUESTION # 197

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