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NVIDIA Generative AI Multimodal Sample Questions (Q135-Q140):

NEW QUESTION # 135

You're training a multimodal model on text, image, and audio data.

a. During training, you encounter 'CUDA out of memory' errors. Your dataset is large, and you have a GPU with limited memory. Which of the following strategies would be MOST effective to mitigate this issue without significantly reducing model performance?

- A. Decrease the number of layers in the model.
- B. Increase the resolution of the input images.

- C. Implement gradient accumulation.
- D. Use mixed-precision training (e.g., FP16 or BFloat16).
- E. Reduce the batch size.

Answer: C,D,E

Explanation:

Reducing the batch size (A) directly decreases memory consumption. Mixed-precision training (B) reduces the memory footprint of the model's weights and activations. Gradient accumulation (D) allows for a larger effective batch size without increasing memory usage per iteration. Decreasing the number of layers (C) can reduce memory usage, but it might also significantly reduce model performance. Increasing image resolution (E) increases memory usage.

NEW QUESTION # 136

You are building a multimodal model for medical diagnosis that combines patient medical history (text), medical images (X-rays, MRIs), and sensor data (heart rate, blood pressure). The dataset contains significant amounts of missing data across all modalities. What strategy is most appropriate for handling the missing data and ensuring the model's robustness and accuracy?

- A. Using a multimodal variational autoencoder (MVAE) to learn a joint latent representation of the data and impute missing values based on the observed modalities.
- B. Using a Generative Adversarial Network (GAN) to impute missing values based on the other available modalities.
- C. Removing all patients with missing data to create a clean dataset.
- D. Training separate models for each available modality.
- E. Imputing missing values using simple methods like mean imputation or filling with a constant value.

Answer: A,B

Explanation:

Removing patients with missing data can lead to a significant loss of information and bias the model. Simple imputation methods can introduce inaccuracies and fail to capture the relationships between modalities. Multimodal variational autoencoders (MVAEs) are specifically designed to handle missing data in multimodal datasets by learning a joint latent representation and imputing values based on the observed modalities. This approach is more robust and accurate than simple imputation methods. GAN can also be used to impute missing values.

NEW QUESTION # 137

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

Answer: A

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 # 138

Which of the following are valid techniques for dealing with overfitting in a deep learning model trained on image data?

- A. Adding L1 or L2 regularization.

- B. Using data augmentation techniques.
- C. Implementing dropout layers.
- D. Reducing the amount of training data
- E. Increasing the complexity of the model.

Answer: A,B,C

Explanation:

Overfitting occurs when a model learns the training data too well and performs poorly on unseen data. L1/L2 regularization penalizes large weights, preventing the model from becoming too complex. Data augmentation increases the Size and diversity of the training data, reducing overfitting. Dropout randomly deactivates neurons during training, preventing co-adaptation and improving generalization. Increasing model complexity or reducing training data would likely worsen overfitting.

NEW QUESTION # 139

You are fine-tuning a pre-trained language model for a specific task. You notice that the model performs well on the training data but poorly on the validation data. Which of the following techniques can help mitigate this overfitting problem? (Select TWO)

- A. Increase the learning rate.
- B. Apply weight decay (L2 regularization).
- C. Increase the size of the training data.
- D. Use dropout regularization.
- E. Decrease the batch size.

Answer: B,D

Explanation:

Overfitting occurs when a model learns the training data too well and fails to generalize to new data. Weight decay (L2 regularization) penalizes large weights, preventing the model from becoming too complex. Dropout randomly deactivates neurons during training, forcing the model to learn more robust features. Increasing the learning rate might worsen overfitting. Decreasing the batch size can sometimes act as a regularizer, but its primary effect is on the training dynamics. While more training data is generally beneficial, if the new data is very similar to the existing training data, it won't necessarily solve the overfitting issue.

NEW QUESTION # 140

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