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NVIDIA Generative AI Multimodal Sample Questions (Q352-Q357):

NEW QUESTION # 352
Consider a multimodal dataset containing patient records: text descriptions of symptoms, MRI images, and audio recordings of heart sounds. Some records are missing MRI images. Which of the following methods is BEST suited for handling this missing data within a multimodal learning framework?

- A. Ignoring the MRI data completely and training the model only on the text and audio data.
- B. Training a separate model only on records with complete data and then using it to predict the missing data.
- C. Deleting all records with missing MRI images.
- D. Imputing missing MRI images using the average MRI image from the entire dataset.
- E. Using a masking approach during training, where the model is trained to predict the missing modality (MRI) from the available modalities (text and audio) for incomplete records and is trained with all modalities for complete records.

Answer: E

Explanation:
Masking provides a way to leverage the available information in all records, even those with missing modalities. The model learns to infer the missing data from the available data, which can improve overall performance. Deleting data or using a simple average imputation can introduce bias or information loss. Training a separate model or ignoring the MRI data altogether does not effectively utilize the available multimodal information for all records.

NEW QUESTION # 353
Explainable A1 (XAI) is crucial when deploying multimodal models, especially in high-stakes scenarios. Which technique is MOST appropriate for understanding the relative importance of different modalities (e.g., image vs. text) in a multimodal classification task?

- A. Calculating the gradient of the output with respect to the input text embeddings.
- B. Performing a principal component analysis (PCA) on the combined feature vectors.
- C. Randomly shuffling the pixels in the input images and observing the change in model performance.
- D. Visualizing the attention weights in the image processing component.
- E. Ablation studies, where each modality is individually removed during inference and the change in model performance is measured.

Answer: E

Explanation:
Ablation studies provide a direct measure of the importance of each modality by observing how the model's performance changes when that modality is removed. This allows you to quantify the contribution of each modality to the overall prediction.

NEW QUESTION # 354
You are working with a dataset of handwritten digits and training a Variational Autoencoder (VAE) to generate new digits. After training, you observe that the generated digits are blurry and lack sharp details. Which of the following modifications could potentially improve the quality of the generated digits in your VAE?

- A. Reducing the weight of the KL divergence term in the VAE loss function.
- B. Using a simpler decoder architecture.
- C. Increasing the weight of the KL divergence term in the VAE loss function.
- D. Increasing the capacity of the encoder and decoder networks (e.g., adding more layers or neurons).
- E. Decreasing the dimensionality of the latent space.

Answer: A,D

Explanation:
Increasing the capacity of the encoder and decoder allows the VAE to learn more complex representations of the data. Reducing the weight of the KL divergence term allows the model to prioritize reconstruction accuracy, which can lead to sharper details. Decreasing latent space dimensionality might restrict the model's ability to capture fine-grained details. A simpler decoder will lead to more blurry images. Increasing the KL divergence weight can lead to disentangled representations, but often at the cost of reconstruction quality (blurriness).

NEW QUESTION # 355
You are training a multimodal model that combines audio and video dat
a. You observe that the model performs well on the training data but generalizes poorly to unseen data. Which of the following regularization techniques is MOST likely to improve the generalization performance in this scenario?

- A. Data Augmentation
- B. Early Stopping
- C. Weight Decay (L2 Regularization)
- D. Dropout
- E. L1 Regularization (Lasso)

Answer: A

Explanation:
Data augmentation is the most effective regularization technique in this scenario because it increases the diversity of the training data, making the model more robust to variations in unseen data L1 and L2 regularization can help prevent over fitting, but data augmentation directly addresses the issue of limited training data. Dropout also helps, but data augmentation is generally more impactful for multimodal data where variations are significant. Early stopping can also help, but it is not as effective as data augmentation.

NEW QUESTION # 356
You're building a system that takes a medical image (e.g., X-ray) and a patient's medical history (text) as input, predicting the likelihood of a specific disease. You want to use SHAP (SHapley Additive exPlanations) values to explain the model's predictions. How would you adapt SHAP to handle both image and text inputs effectively?

- A. Apply KernelSHAP separately to the image and text, then combine the results.
- B. Use DeepExplainer for the image component and a simple linear SHAP explainer for the text.
- C. Treat the image and text as separate models and explain each independently.
- D. Represent both the image and text as numerical vectors and then apply a standard SHAP explainer.
- E. Use a multimodal SHAP implementation that is designed to handle both image and text features simultaneously, considering their interaction.

Answer: E

Explanation:
The best approach is to use a multimodal SHAP implementation that considers the interaction between image and text features. This ensures a holistic explanation of the model's prediction based on both modalities. Treating them separately or simply concatenating features ignores potential synergistic effects.

NEW QUESTION # 357
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