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Questions & Answers



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NVIDIA Generative AI Multimodal Sample Questions (Q308-Q313):

NEW QUESTION # 308

You are developing a system to generate captions for videos. The video frames are processed using a pre-trained ResNet model, and the audio track is processed using a pre-trained Wav2Vec model. Which of the following techniques is MOST suitable for aligning the visual and audio features to generate accurate and coherent captions?

- A. Using a simple feedforward network to combine the ResNet and Wav2Vec features.
- B. Using cross-attention mechanisms where the audio features attend to the visual features, and vice-versa, before feeding them into a Transformer decoder.
- C. Training separate LSTMs for visual and audio features and averaging their outputs.
- D. Concatenating the ResNet and Wav2Vec features and feeding them into a single LSTM.
- E. Ignoring the audio track and only using the video frames.

Answer: B

Explanation:

Cross-attention allows the model to learn the temporal relationships and dependencies between the visual and audio modalities. The audio features can attend to relevant visual features at each time step, and vice versa, leading to better alignment and more coherent captions. Simple concatenation and averaging are less effective at capturing these complex relationships. Ignoring the audio track loses valuable information.

NEW QUESTION # 309

You have developed a multimodal model that uses both audio and video data to detect human emotions. During testing, you observe that the model performs exceptionally well on controlled lab recordings but poorly in real-world scenarios with background noise and varying lighting conditions. What technique would be MOST effective in improving the model's generalization ability to real-world data?

- A. Data augmentation techniques such as adding noise to the audio, simulating different lighting conditions for the video, and using transfer learning from pre-trained audio and video models.
- B. Reducing the model's complexity to prevent overfitting to the lab recordings.
- C. Increasing the amount of data from lab recordings.
- D. Training separate models for lab recordings and real-world data.
- E. Replacing the audio input with text transcripts.

Answer: A

Explanation:

Data augmentation is the most effective way to improve a model's generalization ability to real-world data. By adding noise to the audio, simulating different lighting conditions for the video, we can create a more diverse training dataset that is more representative of the real world. Also leveraging pre-trained audio and video models helps to leverage the knowledge learned on large datasets.

NEW QUESTION # 310

You are training a Variational Autoencoder (VAE) and notice that the generated samples are blurry and lack detail. Which of the following adjustments could help improve the quality and sharpness of the generated images? Select all that apply.

- A. Increase the dimensionality of the latent space
- B. Use a more powerful decoder architecture, such as one with deconvolutional layers.
- C. Decrease the weight of the Kullback-Leibler (KL) divergence term in the loss function.
- D. Increase the capacity of the encoder and decoder networks by adding more layers or units.
- E. Decrease the batch size to reduce computational complexity

Answer: A,B,C,D

Explanation:

Increasing network capacity allows the model to learn more complex representations. Decreasing the KL divergence allows the decoder to focus more on reconstruction, potentially sacrificing some disentanglement. Increasing the latent space provides more room for capturing variations in the data. Using a more powerful decoder helps in generating sharper images

NEW QUESTION # 311

You are tasked with building a system that generates realistic images based on both textual descriptions and a semantic segmentation map. The segmentation map provides spatial information about the objects present in the scene. Which of the following generative architectures is MOST appropriate for this multimodal task?

- A. Vanilla Generative Adversarial Network (GAN)
- B. Diffusion model without conditioning
- C. Autoregressive model like PixelCNN
- D. Variational Autoencoder (VAE)
- E. Conditional Generative Adversarial Network (cGAN) with both text and segmentation map as conditions.

Answer: E

Explanation:

A Conditional GAN (cGAN) is the MOST suitable architecture. cGANs allow you to condition the image generation process on additional information, such as text and segmentation maps. By providing both modalities as conditions, the generator can learn to create images that are consistent with both the textual description and the spatial layout defined by the segmentation map. Vanilla GANs and VAEs don't offer explicit conditioning mechanisms. Autoregressive models can generate high-quality images, but they don't easily accommodate multimodal inputs like text and segmentation maps. A diffusion model without conditioning does not have the capacity to generate images from multimodal prompts.

NEW QUESTION # 312

You are building a multimodal model to classify news articles using both text and images. The text data is processed using spaCy, and image data is processed using Keras. You've noticed that the model is heavily biased towards the text data. Which of the following techniques would be MOST effective in addressing this modality imbalance?

- A. Reducing the dimensionality of the image feature vectors using Principal Component Analysis (PCA).
- B. Normalizing the length of text sequences to a fixed size before feeding into the model.
- C. Implementing modality-specific weighting in the loss function, giving a higher weight to the image loss.
- D. Applying TF-IDF to the text data to reduce the impact of common words.
- E. Using data augmentation techniques on the image dataset, such as random rotations and flips.

Answer: C

Explanation:

Modality-specific weighting directly addresses the imbalance by penalizing errors from the underrepresented modality (images) more heavily. Data augmentation helps improve the image model's performance but doesn't directly address the imbalance. TF-IDF and text sequence normalization focus on text processing. PCA can reduce dimensionality but doesn't directly address the imbalance problem. Therefore, modality-specific weighting is the most effective.

NEW QUESTION # 313

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