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NVIDIA Generative AI Multimodal Sample Questions (Q114-Q119):

NEW QUESTION # 114
Consider the following code snippet used for evaluating a Generative Adversarial Network (GAN):

```
def calculate_fid(images1, images2, eps=1e-6):
  mu1, sigma1 = images1.mean(axis=0), np.cov(images1, rowvar=False)
  mu2, sigma2 = images2.mean(axis=0), np.cov(images2, rowvar=False)
  ssdiff = np.sum((mu1 - mu2) 2.0)
  covmean = sqrtm(sigma1.dot(sigma2))
  if np.iscomplexobj(covmean):
    covmean = covmean.real
  fid = ssdiff + np.trace(sigma1 + sigma2 - 2.0   covmean)
  return fid
```

What does the code snippet calculate, and what do 'images1' and "images2 represent in the context of GAN evaluation?

- A. Calculates the Structural Similarity Index (SSIM); 'images1 and 'images2 represent real and fake images respectively.
- B. Calculates the Inception Score; 'images1' and 'images2 represent real and fake images respectively.
- C. Calculates the Peak Signal-to-Noise Ratio (PSNR); 'images1 and 'images2 represent real and fake images respectively.
- D. Calculates the Frechet Inception Distance (FID); 'images1' and 'images2 represent real and fake images respectively.
- E. Calculates the Kernel Inception Distance (KID); 'images1' and 'images2 represent real and fake images respectively.

Answer: D

Explanation:
The code snippet calculates the Frechet Inception Distance (FID). FID measures the distance between the distributions of real and generated images, with lower FID scores indicating better image quality and diversity, and 'images1 represent feature vectors extracted from real and fake images using an Inception network (or a similar feature extractor). The code calculates the mean (mu) and covariance (sigma) of these feature vectors and uses them to compute the FID score. The other options represent different image quality metrics. The Inception Score assesses the quality and diversity of generated images but does not compare them to real images directly.

NEW QUESTION # 115
You're building a virtual assistant using NVIDIAAvatar Cloud Engine (ACE). You want the avatar to respond to user queries with realistic facial expressions and lip synchronization. Which ACE components are essential for achieving this?

- A. Riva ASR, Riva TTS, and Audi02Emotion.
- B. Only a 3D avatar model.
- C. Riva ASR, Riva TTS, Audi02Emotion, a 3D avatar model, and an animation engine.
- D. only Riva ASR and TTS.
- E. Riva ASR, Riva TTS, Audi02Emotion, and a 3D avatar model.

Answer: C

Explanation:
A complete ACE setup for realistic avatar interaction requires: Automatic Speech Recognition (ASR) to understand the user's query, Text-to-Speech (TTS) to generate the avatar's response, Audi02Emotion to infer emotional expressions from the text/audio, a 3D avatar model to represent the avatar visually, and an animation engine to drive facial expressions and lip synchronization. This combination ensures a lifelike and engaging user experience.

NEW QUESTION # 116
Consider a scenario where you are building a multimodal model that combines image and text data for image captioning. You're using a transformer architecture with cross-attention. Which of the following best describes the role of cross-attention in this context?

- A. It allows the image features to attend to themselves, highlighting the most salient regions in the image.
- B. It is primarily used for dimensionality reduction of the image features.
- C. It allows the text embeddings to attend to the image features, enabling the model to generate captions based on relevant image regions.
- D. It enables the text embeddings to attend to themselves, capturing long-range dependencies within the text.
- E. It fuses the image and text embeddings into a single representation before feeding them to the decoder.

Answer: C

Explanation:
Cross-attention in image captioning allows the decoder (generating text) to focus on specific parts of the image that are most relevant for generating the next word in the caption. The text 'attends' to the image.

NEW QUESTION # 117
You are tasked with creating a multimodal AI application that analyzes social media posts containing text, images, and user profile information to predict the likelihood of a post going viral. Which feature engineering techniques are most effective for representing and integrating these different modalities?

- A. Using TF-IDF for text, pixel values for images, and one-hot encoding for user profile information.
- B. Using bag-of-words for text, histogram of oriented gradients (HOG) for images, and simple numerical features (e.g., number of followers) for user profiles.
- C. Using word embeddings (e.g., Word2Vec, GloVe) for text, pre-trained CNN features (e.g., from ResNet, Inception) for images, and embedding user profiles using a graph embedding technique.
- D. Using character-level n-grams for text, edge detection for images, and boole an features for user profile information.
- E. Using a combination of TF-IDF for text, pixel values for images, and numerical features for user profile information. Then apply PCA for dimensionality reduction.

Answer: C

Explanation:
Using word embeddings captures semantic meaning in text. Pre-trained CNN features provide high-level image representations. Graph embedding for user profiles captures relationships between users. These advanced techniques provide better representations than simple methods like TF-IDF, pixel values, or bag-of-words.

NEW QUESTION # 118
Which of the following are key challenges specific to training multimodal models compared to unimodal models? (Select TWO)

- A. Increased computational cost due to processing multiple data types.
- B. Aligning and fusing information from different modalities with potentially different representations and noise characteristics.
- C. The lack of readily available pre-trained models for different modalities.
- D. The difficulty of evaluating the performance of multimodal models.
- E. The relative simplicity of unimodal model architectures.

Answer: A,B

Explanation:
Multimodal models inherently require more computation due to the need to process multiple data types. The core challenge lies in effectively aligning and fusing the information from these different modalities, especially given the potential for different representations and noise levels. While pre-trained models may exist, the alignment problem remains. Evaluation and model simplicity aren't modality specific challenges.

NEW QUESTION # 119
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