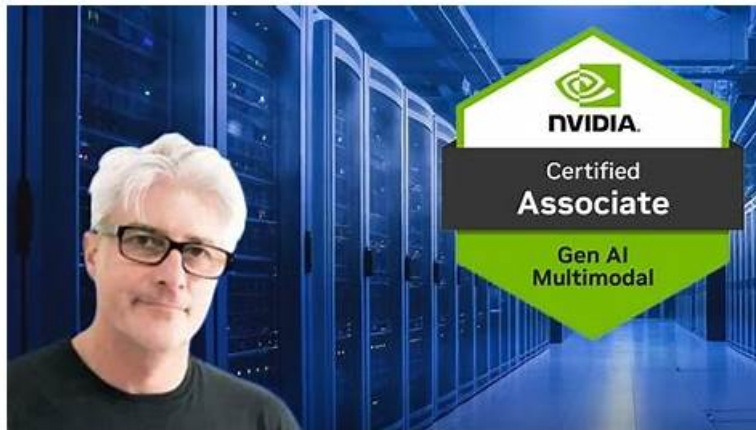


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NVIDIA Generative AI Multimodal Sample Questions (Q143-Q148):

NEW QUESTION # 143

You're working with a client to develop a generative AI model for creating personalized marketing content. During requirements acquisition, the client expresses a desire for 'highly creative' and 'unique' outputs. However, they struggle to articulate specific aesthetic preferences. How would you best approach translating these subjective requirements into concrete model training and prompt engineering strategies?

- A. Conduct extensive A/B testing with a large user group, presenting them with various model outputs and gathering feedback on which content they perceive as most 'creative' and 'unique'. Use this feedback to refine the model and prompts.
- **B. B and D**
- C. Use a pre-trained style transfer model to apply different artistic styles to the generated content, offering the client a diverse range of options to choose from and identify their preferred aesthetic.

- D. Focus solely on quantitative metrics like perplexity and FID score to ensure the model generates diverse and high-quality content, assuming that 'creative' and 'unique' will naturally emerge.
- E. Implement a system for interactive prompt refinement, allowing the client to iteratively modify prompts and observe the resulting outputs in real-time, facilitating a collaborative exploration of the model's creative potential.

Answer: B

Explanation:

Subjective requirements like 'creative' and 'unique' require iterative exploration and client feedback. AIB testing (B) provides quantitative data on user perception. Interactive prompt refinement (D) allows the client to actively shape the model's output and discover their preferences. Quantitative metrics alone (A) are insufficient for capturing subjective qualities. Style transfer (C) can be helpful but doesn't directly address the client's specific vision. Thus, iterative AIB testing and Interactive prompt refinement would be the ideal method.

NEW QUESTION # 144

Consider this PyTorch code snippet related to processing multimodal data. What is the primary purpose of the following code in the context of Generative AI?

- A. To create separate data loaders for images and text.
- B. To concatenate image and text data into a single tensor.
- C. To create a custom dataset class for handling paired image and text data.
- D. To ensure images and text are processed in the same order during training.
- E. To resize all images to the same dimension.

Answer: C

Explanation:

The code defines a custom dataset class ('ImageTextDataset') which is the standard way in PyTorch to handle datasets that involve paired data, such as images and corresponding text descriptions. This allows for efficient loading and processing of the data during training. The snippet does not directly concatenate, ensure order, or specifically resize the images, though these could be parts of the larger system built upon the dataset class. It also doesn't create separate data loaders, but allows to create one dataset class and loader for the multimodal data.

NEW QUESTION # 145

Which of the following statements accurately describes the role of attention mechanisms in Transformer-based multimodal models? (Select all that apply)

- A. Attention mechanisms are primarily used to reduce the computational cost of processing long sequences.
- B. Attention mechanisms allow the model to focus on the most relevant parts of the input sequence when generating the output.
- C. Attention mechanisms prevent vanishing gradients during training of deep neural networks.
- D. Attention mechanisms are used to compress the input sequence into a fixed-length vector representation.
- E. Attention mechanisms enable the model to learn relationships between different modalities, such as images and text.

Answer: B,E

Explanation:

Attention mechanisms enable the model to selectively focus on relevant parts of the input and learn relationships between modalities. They don't compress the input into a fixed-length vector, nor are they primarily for reducing computational cost or preventing vanishing gradients (although they can indirectly help with the latter).

NEW QUESTION # 146

Consider the following PyTorch code snippet for a multimodal loss function:

```

import torch
import torch.nn as nn

def multimodal_loss(image_features, text_features, labels, alpha=0.5):
    # image_features: (batch_size, feature_dim)
    # text_features: (batch_size, feature_dim)
    # labels: (batch_size, num_classes)

    image_loss_fn = nn.CrossEntropyLoss()
    text_loss_fn = nn.CrossEntropyLoss()

    image_loss = image_loss_fn(image_features, labels)
    text_loss = text_loss_fn(text_features, labels)

    total_loss = alpha * image_loss + (1 - alpha) * text_loss

    return total_loss

```

What is the MOST significant issue with this code, preventing it from working as intended for a multimodal task?

- A. The code uses 'CrossEntropyLoss', which is not suitable for feature vectors but for classification scores.
- B. The code lacks normalization of image and text features before computing the loss.
- C. The code doesn't include any regularization to prevent overfitting.
- D. The 'alpha' parameter is not being used correctly to balance the image and text losses.
- E. The function only works for a specific batch size.

Answer: A

Explanation:

The 'CrossEntropyLoss' expects classification scores as input (logits before softmax), not feature vectors. The code passes the feature vectors directly to the loss function, which will lead to incorrect and meaningless results. The other options are less critical: the alpha parameter is used correctly even if the balancing might be suboptimal, feature normalization and regularization are always beneficial but not strictly required, and the function does not require a specific batch size.

NEW QUESTION # 147

You are integrating a generative AI model into a client's existing software infrastructure. The client is concerned about data privacy and security. What steps should you take during data gathering, deployment, and integration to address these concerns, while also using NVIDIA tools effectively?

Select all that apply:

- A. Only utilize pre-trained open-source models
- B. Avoid using any client data for training the generative AI model, instead relying on publicly available datasets to minimize privacy risks.
- C. Implement differential privacy techniques during data collection and model training to protect sensitive information. Leverage NVIDIA's Merlin framework for privacy-preserving data preprocessing.
- D. Implement federated learning, training the generative AI model on the client's data in a distributed manner without directly accessing or transferring the raw data. Use NVIDIA FLARE for orchestrating the federated learning process.
- E. Deploy the generative AI model on-premises within the client's secure network, using Triton Inference Server to ensure controlled access and prevent data leakage.

Answer: C,D,E

Explanation:

Differential privacy (A) adds noise to the data to protect individual records. On-premises deployment (B) maintains control over data access. Federated learning (D) trains the model on decentralized data without centralizing it. Avoiding client data entirely (C) may limit the model's effectiveness. NVIDIA Merlin and FLARE are tools that provide methods to create safe and private architecture. (E) is not always the best approach since the model might be very generalized and not adapted to specific tasks.

NEW QUESTION # 148

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