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NVIDIA Generative AI Multimodal Sample Questions (Q259-Q264):

NEW QUESTION # 259

Consider the following Python code snippet using PyTorch, intended to combine image and text embeddings:

```
import torch

image_embedding = torch.randn(32, 512) # Batch size 32, embedding size 512
text_embedding = torch.randn(32, 512) # Batch size 32, embedding size 512

# Attempt 1: Concatenation
combined_embedding_concat = torch.cat((image_embedding, text_embedding), dim=1)

# Attempt 2: Element-wise addition
combined_embedding_add = image_embedding + text_embedding

# Attempt 3: Learnable weighted sum
weights = torch.nn.Parameter(torch.randn(2))
normalized_weights = torch.nn.functional.softmax(weights, dim=0)
combined_embedding_weighted = normalized_weights[0] * image_embedding + normalized_weights[1] * text_embedding
```

Which of the following statements regarding the output shapes of these combined embeddings are TRUE? (Select TWO)

- A. combined_embedding_weighted has shape (32, 1024).
- B. combined_embedding_concat has shape (64, 512).
- C. combined_embedding_weighted has shape (32, 512).
- D. combined_embedding_add has shape (32, 1024).
- E. combined_embedding_concat has shape (32, 1024).

Answer: C,E

Explanation:

torch.cat concatenates the embeddings along dimension 1, resulting in shape (32, 1024). Element-wise addition maintains the original shape (32, 512). The weighted sum is also element-wise, preserving the (32, 512) shape.

NEW QUESTION # 260

You are evaluating a Generative AI model for image captioning. Which of the following metrics is MOST appropriate for assessing the semantic similarity between the generated captions and the ground truth captions?

- A. ROUGE score
- B. CIDEr score
- C. BLEU score
- D. Perplexity
- E. Inception Score

Answer: B

Explanation:

CIDEr (Consensus-based Image Description Evaluation) is specifically designed for image captioning and is highly correlated with human judgments of caption quality. While BLEU and ROUGE are useful for general text generation, CIDEr excels at capturing semantic similarity in image captions. Inception Score assesses the quality of generated images, not captions, and Perplexity measures the uncertainty of a language model.

NEW QUESTION # 261

When training a multimodal generative model for image captioning, you notice the model generates grammatically correct but generic and uninformative captions. Which technique is MOST likely to improve the informativeness and specificity of the generated captions?

- A. Increase the size of the image encoder.
- B. Employ a diverse beam search or sampling strategy during inference to encourage exploration of different caption possibilities.
- C. Decrease the learning rate during training.
- D. Decrease the size of the vocabulary.
- E. Use beam search during inference with a large beam size.

Answer: B

Explanation:

Diverse beam search or sampling strategies encourage the model to explore different caption possibilities during inference, leading to

more diverse and informative captions. Standard beam search often converges to the most likely caption, which tends to be generic. Increasing the image encoder Size might improve image feature extraction but doesn't directly address the caption informativeness problem. Decreasing the learning rate is a general training technique that might improve convergence but doesn't specifically target caption informativeness.

NEW QUESTION # 262

Consider the following code snippet used for creating a multimodal dataset with PyTorch. The dataset contains images and corresponding text descriptions. However, during training, you observe a significant imbalance in the data distribution of text lengths. Which of the following techniques would BEST address this issue?

- **A. Padding or truncating text sequences to a fixed length.**
- B. Applying Batch Normalization to the image features.
- C. Applying standard image augmentation techniques to the image data.
- D. Using the exact same length of text and same images.
- E. Using a learning rate scheduler to adjust the learning rate during training.

Answer: A

Explanation:

Padding or truncating text sequences to a fixed length is a standard technique for handling variable-length sequences in NLP tasks. This ensures that all text inputs have the same dimensionality, which is required for efficient batch processing in neural networks. While image augmentation can improve the model's robustness to variations in image data, it does not directly address the issue of text length imbalance. Learning rate scheduling and batch normalization are general training techniques that can improve convergence, but they do not specifically address the text length imbalance.

NEW QUESTION # 263

When deploying a large multimodal model to a resource-constrained environment (e.g., an edge device), which optimization techniques are MOST crucial to consider? (Select all that apply)

- **A. Model quantization to reduce the model's memory footprint and computational requirements.**
- **B. Knowledge distillation to transfer knowledge from a larger, more accurate model to a smaller, faster model.**
- C. Increasing the batch size to improve throughput.
- **D. Pruning to remove less important connections from the model.**
- E. Adding more layers to the model to improve accuracy.

Answer: A,B,D

Explanation:

Model quantization, knowledge distillation, and pruning are all effective techniques for reducing the size and computational cost of a model, making it suitable for deployment in resource-constrained environments. Increasing the batch size would typically increase the memory usage. Adding layers would only increase the size.

NEW QUESTION # 264

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