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NVIDIA Generative AI Multimodal Sample Questions (Q23-Q28):

NEW QUESTION # 23

Which of the following techniques are MOST effective for improving the energy efficiency of a large-scale Generative AI model during inference, while minimizing performance degradation?

- A. Increasing the batch size significantly
- B. Gradient accumulation
- C. Knowledge distillation to a smaller model
- D. Model quantization (e.g., INT8)
- E. Pruning (removing less important weights)

Answer: C,D,E

Explanation:

Model quantization reduces the memory footprint and computational cost by representing weights with fewer bits. Knowledge distillation trains a smaller, faster model to mimic the behavior of a larger model. Pruning removes redundant connections, reducing the number of computations. Gradient accumulation is for training, not inference. Increasing batch size may improve throughput but

not necessarily energy efficiency per sample and might even decrease it due to increased memory usage.

NEW QUESTION # 24

Consider a scenario where you are evaluating the performance of a multimodal A1 model that generates descriptions for images. However, the generated descriptions tend to be repetitive and lack diversity. Which of the following techniques can be employed to address this issue and encourage more diverse and creative outputs from the model? (Select TWO)

- A. Utilizing a temperature scaling parameter during decoding and increasing its value.
- B. Using a greedy decoding strategy.
- C. Employing a nucleus sampling (top-p sampling) decoding strategy.
- D. Using a beam search decoding strategy with a small beam width.
- E. Increasing the model's training data size.

Answer: A,C

Explanation:

Nucleus sampling (top-p sampling) randomly samples from the smallest set of words whose cumulative probability mass exceeds a threshold p , encouraging more diverse outputs. Increasing the temperature scaling parameter makes the probability distribution flatter, leading to more exploration and less predictable (more creative) outputs. Beam search with a small beam width might still result in repetitive outputs. Increasing the training data size can help, but it might not directly address the lack of diversity. Greedy decoding always selects the most probable word, leading to repetitive and predictable outputs.

NEW QUESTION # 25

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. Use DeepExplainer for the image component and a simple linear SHAP explainer for the text.
- B. Apply KernelSHAP separately to the image and text, then combine the results.
- 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 # 26

You are working with a multimodal model that combines text and video data for action recognition. The text data consists of descriptions of the actions, and the video data consists of sequences of frames. You want to fuse these modalities at a late fusion stage. Which of the following approaches BEST describes late fusion?

- A. Concatenating the raw pixel values of video frames with the word embeddings of the text descriptions.
- B. Applying attention mechanisms to weigh different parts of the text and video data before feeding them into a shared model.
- C. Training separate models for text and video data and concatenating their learned feature representations before feeding them into a final classifier.
- D. Training a single model with both text and video data as input and using a shared embedding space.
- E. Training separate models for text and video data and averaging their predictions.

Answer: C

Explanation:

Late fusion involves processing each modality separately to obtain feature representations and then combining these representations at a later stage, typically by concatenation or averaging, before making a final prediction. Averaging predictions (option B) is a

specific type of late fusion. Concatenating raw pixel values and word embeddings (option A) is an example of early fusion. Training a single model with a shared embedding space (option C) is also closer to early or intermediate fusion. Attention mechanisms can be used in various fusion strategies but do not define late fusion specifically.

NEW QUESTION # 27

You are developing a multimodal model that combines time-series data from sensor readings with natural language descriptions of events. The time-series data has varying sampling rates and the text descriptions are often vague and ambiguous. How would you best address the challenge of aligning and fusing these two modalities to improve model performance?

- A. Average the time-series data over a fixed time window and concatenate it with the text embeddings.
- B. Resample the time-series data to a uniform sampling rate and directly concatenate it with the text embeddings.
- C. Ignore the time-series data and train the model only on the text descriptions.
- D. Train separate models for time-series and text and average their predictions.
- E. Use a dynamic time warping (DTW) algorithm to align the time-series data with the text descriptions and then use a cross-modal attention mechanism for fusion.

Answer: E

Explanation:

DTW helps align time-series data with varying lengths and temporal distortions to text. Cross-modal attention then effectively fuses the aligned modalities, allowing the model to learn relationships between them. Resampling and direct concatenation (A) doesn't account for temporal variations. Ignoring data (B) is counterproductive. Averaging (D) loses temporal information. Averaging separate model outputs (E) is a form of late fusion and less effective than joint learning after alignment.

NEW QUESTION # 28

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But another important reason is the fact that in the maintenance and Latest NCA-GENM Braindumps Files troubleshooting of networks, we want to refer to these names in order to give a great visual depiction of what we are referring to.

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