NCA-GENM Study Guide: NVIDIA Generative AI Multimodal & NCA-GENM Practice Test & NVIDIA Generative AI Multimodal Learning Materials

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NVIDIA Generative AI Multimodal Sample Questions (Q125-Q130):

NEW QUESTION # 125
You have a multimodal model combining video and text data for action recognition. The model performs well on standard datasets but struggles with videos containing unusual camera angles or lighting conditions. Which data augmentation strategy would be MOST effective in improving the model's robustness?

- A. Applying random rotations, flips, and color jittering to the video frames.
- B. Adding random noise to the audio track.
- C. Randomly cropping and scaling the video frames.
- D. Reducing the frame rate of the videos.
- E. Replacing random words in the text descriptions with synonyms.

Answer: A

Explanation:
Applying random rotations, flips, and color jittering directly addresses the model's sensitivity to camera angles and lighting conditions by exposing it to a wider range of visual variations during training. The other options are less relevant to these specific issues. Audio noise is irrelevant to visual robustness. Cropping and scaling are basic augmentations but less effective than transformations that simulate camera angles and lighting. Synonym replacement improves text understanding, but not visual robustness. Reducing frame rate can reduce computation but doesn't improve robustness to visual variations.

NEW QUESTION # 126
You've trained a large multimodal model that takes text and images as input and generates creative stories. While the model produces high-quality stories in general, it occasionally generates outputs that are factually incorrect or nonsensical. Which of the following techniques would be MOST effective in improving the model's factual accuracy and coherence?

- A. Reducing the temperature parameter during generation.
- B. Implementing a retrieval-augmented generation (RAG) approach.
- C. Training the model on a smaller dataset.
- D. Removing dropout layers.
- E. Increasing the model size by adding more layers.

Answer: B

Explanation:
Retrieval-augmented generation (RAG) involves retrieving relevant information from an external knowledge source (e.g., a database or a collection of documents) and incorporating it into the model's generation process. This can help the model generate more factually accurate and coherent outputs by grounding its responses in external knowledge. Increasing the model size might improve performance, but doesn't guarantee factual accuracy. Reducing temperature makes the output more predictable but doesn't address factual correctness. Smaller datasets and removing dropout would likely worsen performance.

NEW QUESTION # 127
You are building a multimodal generative AI model to create personalized travel itineraries based on user preferences. The input data consists of text reviews of hotels, images of landmarks, audio clips of local music, and time-series data of weather patterns. Which of the following data curation techniques are MOST critical to ensure the quality and coherence of the final itinerary?

- A. Sentiment analysis of text reviews to rank hotels based on positive feedback.
- B. Temporal alignment of weather data with travel dates to suggest suitable activities.
- C. All of the above.
- D. Prioritizing the most recent reviews, regardless of their content.

- E. Image captioning of landmarks to provide textual descriptions for the itinerary.

Answer: C

Explanation:
All the options are critical. Sentiment analysis helps rank hotels, image captioning provides descriptions, and temporal alignment ensures activities are weather-appropriate. Ignoring any of these aspects would negatively impact the quality of the personalized itinerary.

NEW QUESTION # 128
You are tasked with integrating a CLIP model into your application to generate images based on text descriptions. You want to ensure that the generated images closely reflect the nuances of the text prompt. Which prompt engineering technique is MOST suitable for achieving this?

- A. Using prompts consisting only of keywords related to the desired image.
- B. Using short, concise prompts to minimize ambiguity.
- C. Using overly verbose and descriptive prompts to maximize detail.
- D. Using negative prompts to explicitly exclude unwanted features or styles.
- E. Using random prompts to explore the model's creative capabilities.

Answer: D

Explanation:
Negative prompting is a powerful technique where you specify what you don't want in the generated image. This helps refine the output and steer the model away from undesirable artifacts or styles. For example, specifying "a futuristic city, but without flying cars".

NEW QUESTION # 129
Which of the following NVIDIA tools or SDKs can MOST effectively be utilized to profile and optimize the performance of a computationally intensive multimodal generative A1 model running on NVIDIA GPUs? (Select TWO)

- A. NVIDIA Merlin for recommender systems.
- B. NVIDIA Omniverse for collaborative 3D workflows.
- C. NVIDIA Nsight Systems for system-wide performance analysis.
- D. CIJDA Toolkit for memory management.
- E. TensorRT for high-performance inference.

Answer: C,E

Explanation:
Nsight Systems provides detailed system-wide performance analysis, allowing you to identify bottlenecks and optimize resource utilization. TensorRT is a high-performance inference SDK that can significantly speed up model execution. While the CUDA Toolkit is essential for GPU programming, Nsight Systems is better for profiling. Omniverse and Merlin are relevant to other domains, not general performance optimization. Memory management is important, but Nsight provides profiling for this, better answering the question.

NEW QUESTION # 130
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