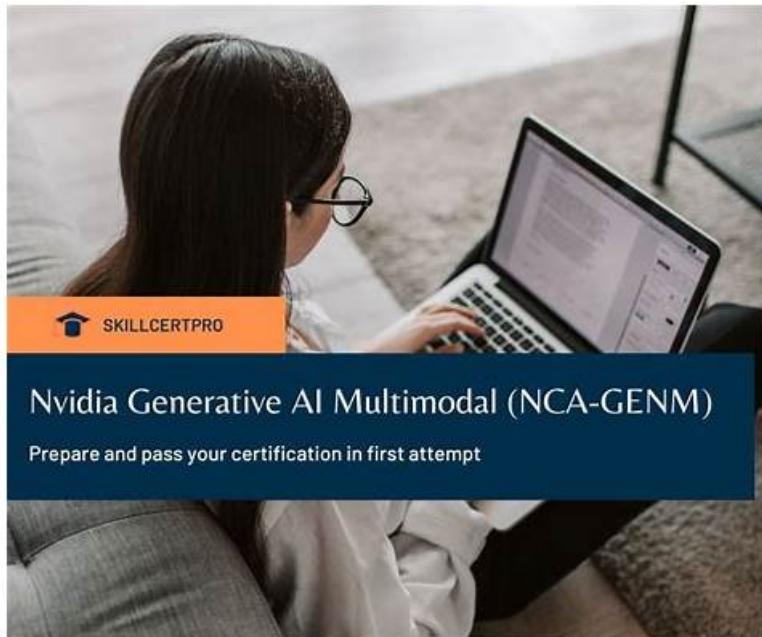


# **NCA-GENM Test Quiz: NVIDIA Generative AI Multimodal & NCA-GENM Actual Exam & NCA-GENM Exam Training**



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## **NVIDIA Generative AI Multimodal Sample Questions (Q225-Q230):**

### **NEW QUESTION # 225**

You are building an AI model that takes video and corresponding subtitles as input to generate short summaries of video content. Which of the following strategies are most important to reduce the chance of your model generating biased summaries? (Select all that apply)

- A. Increase the number of training epochs.

- B. Ensure the training dataset contains diverse representation of all demographic groups and viewpoints.
- C. Evaluate the model's summaries on different demographic groups to identify and mitigate any disparities in performance.
- D. Randomly shuffle data during training.
- E. Use a pre-trained language model that has been debiased.

**Answer: B,C,E**

Explanation:

Debiasing pre-trained models helps remove existing biases. A diverse training dataset is important to reduce the influence of any single biased viewpoint. Evaluating model performance on different demographic groups allows you to find and rectify performance disparities. Random data shuffling (D) and increasing training epochs (E) do not directly address bias. Note this is a very tough question as all choices seem viable but only options, A, B and C are the correct choice.

#### NEW QUESTION # 226

You are tasked with optimizing a large multimodal AI model for deployment on edge devices with limited computational resources. Which combination of techniques would provide the BEST trade-off between model accuracy and inference speed? (Select TWO)

- A. Increasing the number of attention heads in the transformer architecture.
- B. Pruning to remove less important connections in the model.
- C. Using larger batch sizes during inference to maximize GPU utilization.
- D. Adding more layers to the model to increase its representational capacity.
- E. Model quantization (e.g., INT8) to reduce model size and improve inference speed.

**Answer: B,E**

Explanation:

Model quantization reduces the model size and accelerates inference by using lower-precision arithmetic. Pruning reduces the number of parameters, leading to faster computation and lower memory footprint. Increasing attention heads and adding layers increase computational cost. Larger batch sizes can improve GPU utilization on servers, but might not be feasible on resource-constrained edge devices.

#### NEW QUESTION # 227

You are building a Generative AI model that generates captions for images. You want to evaluate the quality of the generated captions.

Which evaluation metrics are MOST suitable for this task?

- A. Cosine Similarity and Euclidean Distance.
- B. BLEU, ROUGE, and CIDEr.
- C. F1-score and AUC.
- D. Accuracy and Precision.
- E. Mean Squared Error (MSE) and Root Mean Squared Error (RMSE).

**Answer: B**

Explanation:

BLEU, ROUGE, and CIDEr are standard metrics used for evaluating the quality of generated text, particularly in image captioning and machine translation. These metrics compare the generated captions to reference captions and measure the similarity in terms of n-grams, word overlap, and other features. Other options are used for Classification problems (Accuracy, Precision, F1-score, AUC) and Regression Problems (MSE, RMSE).

#### NEW QUESTION # 228

You are building a multimodal Generative AI system to generate image captions based on both the visual content of an image and a short audio description of the scene. Which architectural approach would be MOST effective for fusing these two modalities into a coherent representation for caption generation?

- A. Late Fusion: Train separate image and audio encoders, then concatenate their high-level feature vectors before feeding into a caption generation model.
- B. Ignore the audio entirely, as images are sufficient for generating captions.

- C. Intermediate Fusion: Train separate image and audio encoders, then use cross-attention mechanisms to allow the image features to attend to the audio features (and vice-versa) at multiple layers of the model.
- D. Concatenate the image file name with the audio file name before feeding into the LLM.
- E. Early Fusion: Concatenate the raw image pixel data with the raw audio waveform data before feeding it into a single model.

**Answer: C**

Explanation:

Intermediate Fusion, particularly using cross-attention, allows for nuanced interaction between the modalities at multiple levels of abstraction. Early fusion is generally ineffective due to the vast differences in data type. Late fusion may miss important correlations. Ignoring a modality is obviously suboptimal when aiming for multimodal understanding.

### NEW QUESTION # 229

You are building a multimodal Generative AI system to generate marketing content. You have text descriptions of products, images of the products, and customer reviews. Which of the following strategies would best handle potential inconsistencies or contradictions between these different modalities?

- A. Employing an attention mechanism or a cross-modal fusion network that learns to weigh the importance of each modality based on the context.
- B. Training separate models for each modality and then averaging the outputs.
- C. Ignoring customer reviews as they are often unreliable.
- D. Using a simple averaging method to combine the features from each modality.
- E. Prioritizing the image data as images are the most visually appealing and engaging

**Answer: A**

Explanation:

Employing an attention mechanism or a cross-modal fusion network allows the model to dynamically learn which modalities are most relevant for a given input or generation task. This helps in resolving inconsistencies by giving more weight to reliable modalities and diminishing the influence of less reliable ones. Simple averaging or prioritization can lead to suboptimal results when modalities contradict each other.

### NEW QUESTION # 230

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