

# NCA-GENM Test Engine - Training NCA-GENM Kit



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## **NVIDIA - NCA-GENM - NVIDIA Generative AI Multimodal Accurate Test Engine**

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### **NVIDIA Generative AI Multimodal Sample Questions (Q194-Q199):**

#### **NEW QUESTION # 194**

Consider a multimodal dataset containing patient records: text descriptions of symptoms, MRI images, and audio recordings of heart sounds. Some records are missing MRI images. Which of the following methods is BEST suited for handling this missing data within a multimodal learning framework?

- A. Imputing missing MRI images using the average MRI image from the entire dataset.

- B. Deleting all records with missing MRI images.
- C. Ignoring the MRI data completely and training the model only on the text and audio data.
- **D. Using a masking approach during training, where the model is trained to predict the missing modality (MRI) from the available modalities (text and audio) for incomplete records and is trained with all modalities for complete records.**
- E. Training a separate model only on records with complete data and then using it to predict the missing data.

**Answer: D**

Explanation:

Masking provides a way to leverage the available information in all records, even those with missing modalities. The model learns to infer the missing data from the available data, which can improve overall performance. Deleting data or using a simple average imputation can introduce bias or information loss. Training a separate model or ignoring the MRI data altogether does not effectively utilize the available multimodal information for all records.

### NEW QUESTION # 195

You're developing a system that translates spoken language into sign language animations. Which of the following losses would be MOST suitable for training the model to generate realistic and accurate sign language sequences from speech input?

- **A. A combination of MSE loss for joint positions and a temporal smoothness loss to encourage smooth transitions between sign language poses.**
- B. Cosine Similarity loss between audio embeddings and sign language animation embeddings.
- C. Cross-entropy loss between the predicted sign language sequence and the ground truth sequence.
- D. Mean Squared Error (MSE) loss between the predicted joint positions of the sign language character and the ground truth joint positions.
- E. Binary Cross entropy to classify the output sign animation-

**Answer: A**

Explanation:

MSE loss ensures accurate joint positioning, while the temporal smoothness loss prevents jerky and unnatural movements. Cross-entropy is suitable for classification tasks, not continuous sequence generation. Cosine Similarity between embeddings might encourage general alignment, but doesn't guarantee accurate pose reproduction and Binary Cross entropy is only good for Binary Classification tasks.

### NEW QUESTION # 196

You are building a multimodal model that takes images and text descriptions as input to generate new images. You want to evaluate the impact of different image encoders (ResNet50, Efficient Net) on the generated image quality and relevance to the text prompt. Which evaluation metric(s) would be MOST appropriate for this task?

- A. Perplexity and BLEU score
- B. Frechet Inception Distance (FID) only
- C. CLIP Score only
- **D. Both FID and CLIP Score**
- E. Inception Score (IS) only

**Answer: D**

Explanation:

FID measures the distance between the feature distributions of generated and real images, indicating image quality and diversity. CLIP Score measures the similarity between the generated image and the text prompt, evaluating relevance. IS more suitable for evaluating unimodal image generation. Perplexity and BLEU score are for text generation.

### NEW QUESTION # 197

Which of the following statements are TRUE regarding the challenges of training multimodal machine learning models? (Select TWO)

- A. Multimodal models are immune to the problem of overfitting due to the diverse nature of the input data.
- **B. Handling missing modality data (e.g., missing image for a text input) requires specialized techniques.**
- C. All available open-source tools readily support multimodal architectures and loss functions, so there are no software-

related challenges.

- D. Multimodal models are generally easier to train than unimodal models due to the increased information available.
- E. Aligning data from different modalities with varying temporal resolutions (e.g., high-frame-rate video and low-frequency audio) is a significant challenge.

**Answer: B,E**

Explanation:

Multimodal models are harder to train than unimodal ones. Missing modality data requires specific handling. Different temporal resolutions need alignment. Overfitting remains a concern. Open source availability is improving, but multimodal specific support remains more niche than unimodal.

### NEW QUESTION # 198

You're analyzing the performance of a generative AI model that produces images from text prompts. You notice that the model struggles to generate images with specific objects mentioned in the prompt, even though these objects appear frequently in the training dataset.

Which of the following techniques could BEST address this issue?

- A. Increasing the batch size during training.
- B. Applying a larger kernel size in the convolutional layers of the model.
- C. Reducing the learning rate during training.
- D. Adding more layers to the generative model's architecture.
- E. Implementing a re-weighting scheme that gives higher weight to training examples containing the problematic objects.

**Answer: E**

Explanation:

Re-weighting the training data to emphasize examples containing the underrepresented objects directly addresses the issue of the model not learning these objects effectively. Increasing batch size or adding layers might improve overall performance but doesn't specifically target the object representation problem. Reducing learning rate may lead to slower convergence. Increasing kernel size changes receptive field but does not address the imbalanced representation of objects.

### NEW QUESTION # 199

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