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

NEW QUESTION # 125

You're developing an Avatar Cloud Engine (ACE) application to create a real-time, interactive virtual assistant. The assistant needs to respond to user speech, understand their intent, and generate appropriate responses. Which sequence of NVIDIA SDKs would provide the MOST complete solution for this task?

- A. Riva (for speech recognition and synthesis) -> NeMo (for natural language understanding and response generation) -> Triton Inference Server (for model deployment) ACE (for avatar rendering and animation).
- B. NeMo (for training a custom language model) -> Triton Inference Server (for serving the trained language model) -> ACE (for avatar rendering and animation).
- C. Triton Inference Server (for serving all models) -> Riva (for speech recognition and synthesis) ACE (for avatar rendering and animation).
- D. CUDA (For running deep learning workloads)-> Riva (for speech recognition and synthesis) -> ACE (for avatar rendering and animation).
- E. Riva (for speech recognition and synthesis) -> Triton Inference Server (for serving a pre-trained chatbot model) -> ACE (for avatar rendering and animation).

Answer: A

Explanation:

The most complete solution involves speech recognition and synthesis (Riva), natural language understanding and response generation (NeMo), efficient model deployment (Triton), and avatar rendering/animation (ACE). Option A is missing the NLU/response generation component. Option B doesn't directly address speech recognition. Option D puts Triton in the wrong order. Option E is too low level and doesn't leverage the higher-level SDKs effectively. The Correct sequence ensures the speech is converted to text, understands the intent, creates an appropriate response using a trained Model/architecture and finally shows the response through an Avatar.

NEW OUESTION # 126

A multimodal A1 model is trained on a dataset containing biased text and images. This bias leads to the model generating outputs that reinforce negative stereotypes. Which of the following steps are crucial for addressing and mitigating this bias during the model development lifecycle? (Select TWO)

- A. Increasing the learning rate during training.
- B. Collecting a more diverse and representative dataset.
- C. Reducing the number of layers in the neural network.
- D. Implementing model distillation to reduce the model size
- E. Using adversarial training techniques to encourage fairness.

Answer: B,E

Explanation:

Collecting a more diverse dataset helps to reduce the bias present in the training data. Adversarial training can be used to train the model to be more robust to biased inputs and generate fairer outputs. Increasing the learning rate or reducing the number of layers do not directly address bias. Model distillation mainly aims at model size reduction, not bias mitigation.

NEW QUESTION # 127

You are working on a sequence-to-sequence model for neural machine translation. You've implemented an attention mechanism, but the model is still struggling with long sentences, often losing context in the later parts of the translation. Which type of attention mechanism is most likely to alleviate this issue effectively?

- A. Local (Hard) Attention
- B. Self-Attention
- C. Global (Soft) Attention
- D. Bahdanau Attention (Additive Attention)
- E. Multi-Head Attention

Answer: E

Explanation:

Multi-Head Attention allows the model to attend to different parts of the input sequence with different learned linear projections, capturing richer relationships and improving performance on long sequences compared to single-head attention mechanisms- While other attention mechanisms are valuable, multi-head attention offers the most robust solution for long-range dependencies.

You are analyzing a dataset of customer reviews for a Generative A1-powered product. You want to identify the key themes and topics that customers are discussing. Which technique would be MOST appropriate for this task?

- A. Sentiment analysis to determine the overall positive or negative sentiment.
- B. Clustering analysis to group customers based on demographics.
- C. Topic modeling (e.g., LDA, NMF) to discover underlying themes in the reviews.
- D. Regression analysis to predict customer satisfaction scores.
- E. Time series analysis to track review volume over time.

Answer: C

Explanation:

Topic modeling is specifically designed to discover the underlying themes and topics within a collection of documents (in this case, customer reviews). LDA (Latent Dirichlet Allocation) and NMF (Non-negative Matrix Factorization) are common topic modeling techniques. Sentiment analysis provides an overall sentiment score but doesn't identify specific themes. Regression analysis is for prediction, not theme discovery. Clustering groups customers, not review topics. Time series analysis tracks changes over time, not themes.

NEW QUESTION # 129

Consider a multimodal dataset containing text, images, and corresponding GPS coordinates. You want to build a model that predicts the sentiment of a social media post based on this dat a. Which of the following data preprocessing steps are crucial to ensure the model's performance and prevent data leakage?

- A. Randomly shuffle the entire dataset before splitting it into training, validation, and test sets.
- B. Resize all images to a uniform size.
- C. Normalize all text data to lowercase and remove punctuation.
- D. Split the dataset into training, validation, and test sets based on time to avoid leakage of future information into the training set
- E. Standardize the GPS coordinates (latitude and longitude) using a scaler fitted only on the training data.

Answer: B,C,D,E

Explanation:

Normalizing text (A) and resizing images (B) are standard preprocessing steps. Time-based splitting (C) prevents data leakage by ensuring that the model is not trained on future data. Standardizing GPS coordinates (E) with training data prevents the test data from influencing the scaling. Random shuffling before splitting (D) can lead to data leakage in time-series data.

NEW QUESTION #130

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