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NVIDIA Generative AI Multimodal Sample Questions (Q57-Q62):

NEW QUESTION # 57

You have developed a multimodal model that predicts stock prices using news articles (text), historical stock data (time-series), and company financial reports (tabular data). You want to deploy this model using NVIDIA Triton Inference Server. Assume you have preprocessed the data and have individual models for each modality. What is the recommended approach to configure Triton for efficient and scalable multimodal inference?

- A. Deploy each modality-specific model as a separate Triton model and handle the fusion logic in the client application.
- B. Deploy each modality-specific model as a separate Triton model and use a load balancer to distribute requests across the models.
- C. Convert all models to TensorRT for maximum inference speed, even if it compromises accuracy due to quantization.
- D. Create a single Triton model that encapsulates the entire multimodal pipeline, including preprocessing, individual modality models, and fusion logic, using the Ensemble Modeling feature.

- E. Deploy the text model using ONNX Runtime, the time-series model using TensorFlow, and the tabular data model using PyTorch, and handle fusion manually.

Answer: D

Explanation:

Using Triton's Ensemble Modeling feature (B) is the most efficient approach. It allows you to define a pipeline that includes preprocessing, individual modality models, and fusion logic within a single Triton model, simplifying deployment and management. This approach optimizes inter-model communication and reduces client-side overhead.

NEW QUESTION # 58

You are working with a transformer-based multimodal model that processes both text and audio. You want to implement an efficient attention mechanism that reduces the computational cost associated with attending to the entire input sequence. Which of the following attention mechanisms would be MOST suitable for achieving this goal?

- A. Global Attention
- B. Multi-Head Attention
- C. Local Attention
- **D. Sparse Attention**
- E. Scaled Dot-Product Attention

Answer: D

Explanation:

Sparse attention is designed to reduce the computational cost of attention by only attending to a subset of the input sequence at each position. This can significantly reduce the memory and computational requirements, making it suitable for long sequences in multimodal tasks. Other attention mechanisms (A, B, D, E) still require computing attention scores for all or most of the input sequence.

NEW QUESTION # 59

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. Train separate models for time-series and text and average their predictions.
- B. Average the time-series data over a fixed time window and concatenate it with the text embeddings.
- **C. 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.**
- D. Ignore the time-series data and train the model only on the text descriptions.
- E. Resample the time-series data to a uniform sampling rate and directly concatenate it with the text embeddings.

Answer: C

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 # 60

A financial institution aims to detect fraudulent transactions by analyzing transaction history (time-series), customer profiles (text and numerical data), and network activity (graph data). The system must identify fraudulent patterns in real-time. Which of the following architectural patterns is MOST suitable for building this multimodal fraud detection system, considering both accuracy and latency requirements?

- **A. A hybrid approach that combines real-time stream processing for initial detection and batch processing for periodic model retraining and refinement.**
- B. An architecture based solely on rule-based systems to minimize latency, ignoring the potential for machine learning to

detect complex fraud patterns.

- C. Train three separate models for each data set, transaction history, customer profile, and network activity.
- D. A real-time stream processing architecture that uses a combination of rule-based systems and machine learning models to detect fraudulent transactions as they occur.
- E. A batch processing pipeline that aggregates data daily and trains a machine learning model to identify fraudulent transactions.

Answer: A

Explanation:

A hybrid approach is best. Real-time stream processing enables immediate detection, while batch processing allows for more sophisticated analysis and model updates, improving accuracy over time. Batch processing alone is too slow for real-time fraud detection, and rule-based systems are less adaptable to evolving fraud patterns.

NEW QUESTION # 61

You are working on a project to classify images of different types of flowers. You have a relatively small dataset (around 500 images per class). Which of the following techniques would be the MOST effective to improve the performance of your image classifier, considering the limited data?

- A. Reduce the image resolution to decrease the number of parameters in the model.
- B. Train a very deep convolutional neural network from scratch.
- C. Use a simple linear classifier.
- **D. Use a pre-trained convolutional neural network on a large dataset like ImageNet and fine-tune it on your flower dataset**
- E. Apply aggressive data augmentation techniques, such as random rotations, flips, and crops.

Answer: D

Explanation:

Transfer learning, specifically fine-tuning a pre-trained model, is highly effective when dealing with small datasets. Pre-trained models have already learned useful features from large datasets, and fine-tuning them allows the model to adapt to the specific characteristics of your flower dataset. Training a deep network from scratch with limited data will likely lead to overfitting. Data augmentation helps, but transfer learning is generally more impactful. Reducing image resolution might lose important details, and a linear classifier might be too simple to capture the complexity of image features.

NEW QUESTION # 62

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