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NVIDIA Generative AI Multimodal Sample Questions (Q253-Q258):

NEW QUESTION # 253
You are building a multimodal model to predict stock prices using financial news articles (text), historical stock prices (time-series), and company logos (images). You have preprocessed the data and are ready to train your model. Which of the following

architectures would be MOST suitable for effectively integrating these three modalities?

- A. A model that uses a Transformer encoder for each modality, followed by a shared Transformer decoder for prediction, enabling cross-modal attention at the decoder level.
- B. A model that combines a Transformer for text, an LSTM for time-series, and a CNN for images, with a late fusion strategy using a weighted averaging of predictions.
- C. Separate models for each modality trained independently, and then ensembled together at the prediction stage.
- D. A model that converts all data into a single text format and uses a large language model (LLM) for prediction.
- E. A simple feed forward neural network with concatenated features from all modalities.

Answer: A,B

Explanation:
Combining a Transformer for text, an LSTM for time-series, and a CNN for images with a late fusion approach allows each modality to be processed by a suitable architecture and then combined to generate a final prediction. Using transformers in each modality with shared Transformer decoder can efficiently integrate and predict stock prices using cross modal attention . A simple feedforward network is unlikely to capture the temporal dependencies in the time-series data or the complex relationships between modalities. Ensembling independent models doesn't allow for cross-modal learning. Converting all data into text might lose valuable information from the other modalities. Therefore, hybrid architecture combining transformers, LSTMs, and CNNs with cross-modal attention or late fusion would be most effective.

NEW QUESTION # 254
Consider the following Python code snippet utilizing the Hugging Face Transformers library for multimodal processing. The objective is to perform visual question answering (VQA). Assume 'image' is a PIL Image object and 'question' is a string. However, the code is incomplete. Choose the options to complete the code.

```
model_name = "Salesforce/blip-vqa-base"
processor = AutoProcessor.from_pretrained(model_name)
model = AutoModelForQuestionAnswering.from_pretrained(model_name
inputs = processor(image, question, return_tensors="pt")
outputs = model( inputs)
```

- A.
```
answer = processor.decode(outputs.logits.argmax(-1))
```
- B.
```
model_name = 'Salesforce/blip-vqa-base'
processor = AutoProcessor.from_pretrained(model_name)
model = AutoModelForSeq2SeqLM.from_pretrained(model_name)
inputs = processor(images=image, text=question, return_tensors='pt')
outputs = model.generate( inputs)
answer = processor.decode(outputs[0], skip_special_tokens=True)
```
- C.
```
model_name = 'Salesforce/blip-vqa-base'
processor = AutoProcessor.from_pretrained(model_name)
model = AutoModelForImageClassification.from_pretrained(model_name)
inputs = processor(images=image, text=question, return_tensors='pt')
outputs = model( inputs)
answer = processor.decode(outputs[0], skip_special_tokens=True)
```
- D.
```
model_name = 'Salesforce/blip-vqa-base'
processor = AutoProcessor.from_pretrained(model_name)
model = AutoModelForCausalLM.from_pretrained(model_name)
inputs = processor(images=image, text=question, return_tensors='pt')
outputs = model.generate( inputs)
answer = processor.decode(outputs[0], skip_special_tokens=True)
```
- E.

```
model_name = 'Salesforce/blip-vqa-base'
processor = AutoProcessor.from_pretrained(model_name)
model = AutoModel.from_pretrained(model_name)
inputs = processor(images=image, text=question, return_tensors='pt')
outputs = model( inputs)
answer = outputs.logits.argmax(-1)
```


Answer: B

Explanation:
The correct code uses ' AutoModelForSeq2SeqLM' because BLIP (used in the example) is a sequence-to-sequence model. The processor correctly handles the image and text, and 'model.generate' produces the answer which is then decoded. 'AutoModelForQuestionAnswering' is not a generic class and won't work correctly with BLIP without additional adaptation.

NEW QUESTION # 255
You're building a chatbot that can understand both text and images. The chatbot is intended to answer questions about images uploaded by users. However, you observe that when presented with complex scenes containing multiple objects, the chatbot struggles to accurately identify and describe the objects being queried. Which of the following strategies would be MOST beneficial in improving the chatbot's performance on complex visual scenes?

- A. Remove the image processing component entirely.
- B. Train the chatbot on a dataset with only simple images containing a single object.
- C. Use a larger language model for the chatbot.
- D. Reduce the resolution of the input images.
- E. Integrate an object detection model to identify and localize objects in the image before feeding the information to the chatbot.

Answer: E

Explanation:
Integrating an object detection model allows the chatbot to explicitly identify and localize the objects within the image, providing crucial information for answering questions about specific objects in complex scenes. A larger language model can help with general language understanding, but doesn't address the fundamental issue of object identification. Reducing image resolution or training on simple images will degrade performance on complex scenes. Removing image processing defeats the purpose.

NEW QUESTION # 256
Which of the following techniques are MOST likely to improve the energy efficiency of a large-scale multimodal AI model without significantly sacrificing accuracy?

- A. Using a larger, more complex model architecture.
- B. Model quantization (e.g., converting weights from FP32 to INT8).
- C. Increasing the batch size during training.
- D. Applying pruning techniques to remove less important connections in the model.
- E. Knowledge distillation to train a smaller student model.

Answer: B,D,E

Explanation:
Model quantization reduces the memory footprint and computational requirements by using lower precision numbers. Knowledge distillation transfers knowledge from a large model to a smaller one, reducing the computational cost. Pruning removes redundant connections, making the model more efficient. Increasing batch size (Option B) can improve throughput but doesn't inherently reduce energy consumption per sample. Using a larger model (Option D) increases energy consumption.

NEW QUESTION # 257
Which of the following is NOT a common challenge in training multimodal Generative AI models?

- A. Dealing with missing modality data during inference.
- B. Optimizing for a single modality at the expense of others.
- C. Aligning feature spaces of different modalities.
- D. Handling different data modalities with varying statistical properties.
- E. The computational complexity associated with training large unimodal models.

Answer: E

Explanation:
The computational complexity of training large unimodal models is a challenge for unimodal models, but not a distinct challenge inherent to multimodal models. Multimodal models have unique challenges related to data heterogeneity, feature alignment, handling missing modalities, and balancing performance across modalities.

NEW QUESTION # 258
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