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NVIDIA Generative AI Multimodal Sample Questions (Q53-Q58):

NEW QUESTION # 53
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. Normalize all text data to lowercase and remove punctuation.
- B. Resize all images to a uniform size.
- C. Split the dataset into training, validation, and test sets based on time to avoid leakage of future information into the training set.
- D. Standardize the GPS coordinates (latitude and longitude) using a scaler fitted only on the training data.
- E. Randomly shuffle the entire dataset before splitting it into training, validation, and test sets.

Answer: A,B,C,D

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 # 54
You are building a multimodal model that combines text and images to generate product descriptions. The text data is tokenized using spaCy, and the image data is represented as feature vectors extracted from a pre-trained ResNet model. How can you effectively align and fuse these heterogeneous data types before feeding them into a downstream generative model?

- A. Projecting both the text and image representations into a common embedding space using learned linear transformations before fusion.
- B. Training separate generative models for text and images and then averaging their outputs.
- C. Averaging the spacy token vectors and ResNet feature vectors element-wise.
- D. Concatenating the spacy token vectors and ResNet feature vectors directly.
- E. Using a cross-modal attention mechanism that allows the model to selectively attend to relevant parts of the image based on the text and vice versa.

Answer: A,E

Explanation:
Direct concatenation or averaging doesn't capture the complex relationships between modalities. Cross-modal attention allows the model to learn which parts of the image are most relevant to the text, leading to better alignment and fusion. Projecting both modalities into a common embedding space allows for a unified representation that can be effectively used by the downstream generative model.

NEW QUESTION # 55
You are developing a system that uses a generative A1 model deployed with Triton Inference Server to create personalized avatars. You want to ensure that the system is robust against malicious inputs designed to generate offensive or harmful content. Which of the following security measures are most critical to implement in conjunction with Triton?

- A. Implementing input validation to enforce a maximum length for text prompts, using a content moderation API to filter the output generated by the model, and logging all user activity for auditing purposes.
- B. All of the above.
- C. Rate limiting the number of requests per user, implementing input validation and sanitization to filter out potentially harmful prompts, and regularly auditing the generated content for offensive material.
- D. Using a web application firewall (WAF) to protect the Triton server from denial-of-service attacks, implementing role-based access control (RBAC) to limit user privileges, and regularly updating the Triton software to patch security vulnerabilities.
- E. Encrypting all communication between the client and the Triton server using HTTPS, restricting access to the Triton server to a private network, and using strong passwords for all Triton accounts.

Answer: B

Explanation:
All the security measures listed are crucial for protecting a generative A1 system from malicious inputs. (A, B, C, D). These steps ensure the system's security, protect sensitive data, prevent misuse, and allow you to monitor and respond to potential issues effectively.

NEW QUESTION # 56
You are building a system that uses both video and text to determine the sentiment of movie reviews. You notice that while your system works great on the training set, the performance is much worse on the validation set. What is the MOST likely reason for this and what methods can you use to improve the performance?

- A. The model is overfitting on the training data. Use regularization techniques or more training data to overcome this.
- B. The text data is corrupt. Clean the text data by ensuring that the text is not noisy or missing.
- C. The training data is not representative enough of the real world. Gather new data that matches the real world, or introduce a cross validation training routine.
- D. The model is not complex enough. Use a larger model or different model to improve results.
- E. The Video Data is too Large. Consider compressing the video data to ensure that it all fits into memory.

Answer: A,C

Explanation:
The most likely reason is that the data is overfitting and the model is not able to properly generalize to new data. Overfitting causes performance in the training set to be great but performance in the validation set to be poor. Regularization techniques (such as dropout, Ll or L2) can reduce this effect. The other likely reason is that the training data is not representative enough of the real world, as the data might not be realistic, too synthetic, or missing real world information.

NEW QUESTION # 57
You're developing a text-to-image generation system using a pre-trained CLIP model and a diffusion model. You notice that while the generated images match the overall theme of the text prompt, they often fail to accurately represent specific objects mentioned in the prompt. What are the two MOST effective strategies to improve object fidelity in this scenario?

- A. Fine-tune the diffusion model using a dataset of images specifically depicting the objects that are frequently misrepresented.
- B. Replace the CLIP model with a larger, more powerful text encoder that has been trained on a more diverse dataset.
- C. Implement a technique called 'Classifier-Free Diffusion Guidance', which allows for more flexible control over the generated image content.
- D. Increase the guidance scale during diffusion sampling, forcing the generated images to align more closely with the CLIP embeddings.
- E. All of the Above

Answer: C,D

Explanation:
Increasing the guidance scale (B) forces stronger alignment with the CLIP embeddings, improving object fidelity. Classifier-Free Diffusion Guidance (D) provides finer-grained control over image content, allowing the model to better represent specific objects. Fine-tuning the diffusion model (A) can be helpful but requires a significant amount of data. Using a larger text encoder (C) may improve overall performance but may not directly address object fidelity. Classifier-Free Diffusion Guidance and increasing guidance scale are the most targeted strategies to increase object fidelity for text-to-image models, as guidance scale can also have some artifacts.

NEW QUESTION # 58
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