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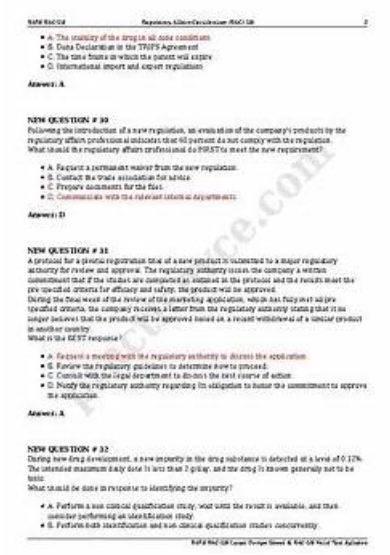

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NVIDIA Generative AI Multimodal Sample Questions (Q204-Q209):

NEW QUESTION # 204
You are evaluating a multimodal model that generates descriptions for video clips. You have human ratings for the relevance, fluency, and coherence of the generated descriptions. Which statistical test is MOST appropriate for determining if there is a statistically significant difference in the median ratings for each of these criteria (relevance, fluency, coherence) between two different versions of your model?

- A. Kruskal-Wallis test
- B. ANOVA
- C. Mann-Whitney U test
- D. T-test
- E. Friedman Test

Answer: C

Explanation:
Since you're interested in comparing the medians of the ratings and not assuming a normal distribution (which is often the case with subjective human ratings), a non-parametric test is more appropriate than a t-test or ANOVA. The Mann-Whitney U test (also known as the Wilcoxon rank-sum test) is used to compare the medians of two independent groups. The Kruskal-Wallis test is used when you have more than two groups.

NEW QUESTION # 205
You're developing a real-time video captioning system. Latency is critical. Which of the following optimization strategies would provide the MOST significant reduction in end-to-end latency, assuming the captioning model is already optimized for inference?

- A. All of the above.
- B. Using a smaller batch size for inference.
- C. Overlapping image feature extraction and caption generation using asynchronous execution.
- D. Employing model quantization (e.g., converting weights from FP32 to INT8).
- E. Caching the most frequent words in a local vocabulary.

Answer: A

Explanation:
While all listed strategies contribute to reducing latency, Option C - overlapping image feature extraction and caption generation - offers a substantial reduction by parallelizing these typically sequential processes. It leverages asynchronous execution to minimize idle time. Smaller batch sizes (A) and Model Quantization (B) would directly improve model inference. Caching frequent words (D) could reduce lookup time during caption generation. However, the overlapping approach provides a more significant change by improving concurrency. E is a combination of all of the above which leads to best optimized model.

NEW QUESTION # 206
You have trained a multimodal model for visual question answering (VQA). During inference, the model often generates incorrect answers even though it seems to understand the question and the image content. Which of the following strategies could help improve the accuracy of the model's predictions? (Select all that apply)

- A. Implement a loss function that penalizes incorrect answers more heavily.
- B. Use beam search decoding to explore multiple possible answer sequences.
- C. Reduce the size of the training dataset.
- D. Apply data augmentation techniques to the training images, such as random cropping and rotations.
- E. Increase the learning rate during fine-tuning.

Answer: A,B,D

Explanation:

Beam search can help explore more probable answer sequences, data augmentation can improve the model's robustness, and a loss function that penalizes incorrect answers more heavily can encourage the model to learn more accurate predictions. Increasing the learning rate might lead to instability, and reducing the dataset size is generally detrimental to performance.

NEW QUESTION # 207
You are experimenting with different loss functions for training a Variational Autoencoder (VAE) to generate images. You observe that using only the reconstruction loss (e.g., Mean Squared Error) results in blurry images. What other loss component is typically added to the VAE objective function to encourage the latent space to be well-structured and generate sharper images?

- A. Kullback-Leibler (KL) divergence loss
- B. Hinge loss
- C. Contrastive loss
- D. Perceptual loss
- E. Cross-entropy loss

Answer: A

Explanation:
The Kullback-Leibler (KL) divergence loss is a crucial component of the VAE objective function. It measures the difference between the learned latent space distribution and a prior distribution (typically a standard Gaussian). Adding the KL divergence loss encourages the latent space to be well-structured and continuous, which helps generate sharper and more realistic images. The other loss functions serve different purposes and are not typically used in VAEs for this specific reason. Cross-entropy is for classification. Perceptual loss helps in transferring styles. Contrastive loss used to learn embedding. Hinge loss mostly used in SVM.

NEW QUESTION # 208
You are developing a multimodal model that combines text and tabular data for predicting customer churn. The text data consists of customer reviews, and the tabular data includes demographics and transaction history. You've preprocessed both datasets. Which of the following approaches would be the MOST effective for integrating these modalities?

- A. Use a Transformer-based model to encode the text and a separate neural network for the tabular data, then fuse the embeddings.
- B. Concatenate the raw text and tabular data into a single feature vector.
- C. Convert the text data into numerical features using techniques like TF-IDF, then concatenate these features with the tabular data.
- D. Train separate models for text and tabular data, then average their predictions.
- E. All of the above.

Answer: A,C

Explanation:
Options C and D provides the most effective integration. Using a Transformer-based model for text allows it to capture complex relationships and dependencies in the text. A separate neural network handles tabular data effectively. Fusing the embeddings provides a unified representation. Option D is also valid because it allowst he model to incorporate the text and tabular data together as a single feature vector. Raw concatenation (A) is unlikely to work well. Averaging predictions (B) might not capture interactions between modalities.

NEW QUESTION # 209
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