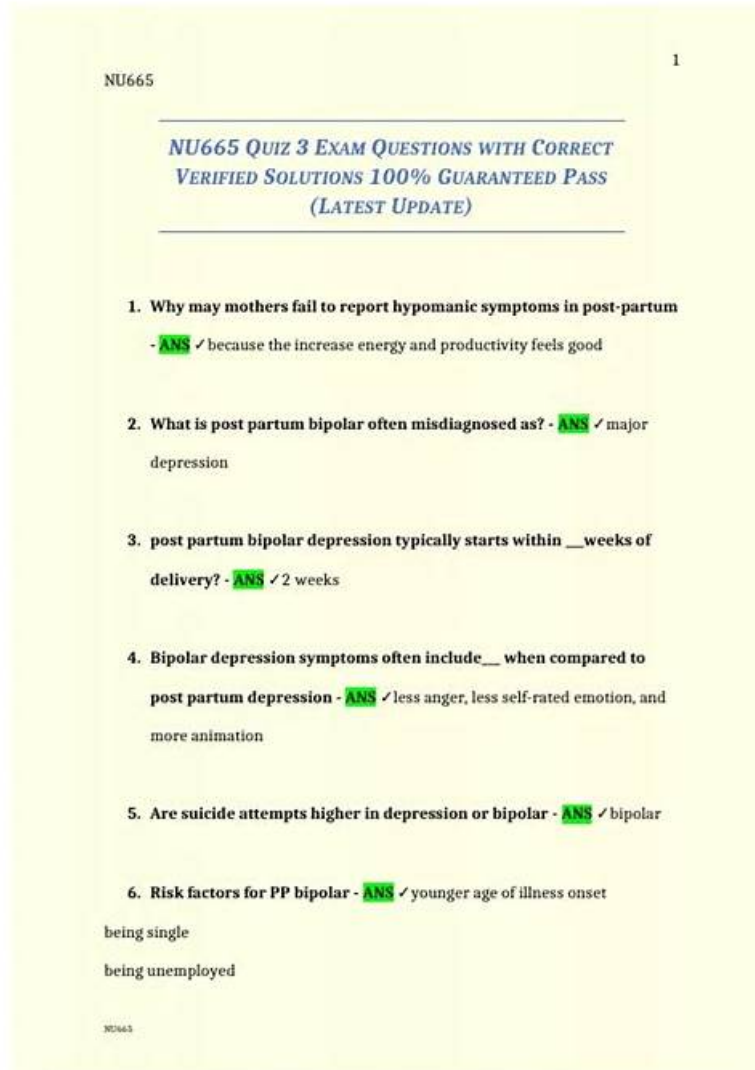


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NVIDIA Generative AI Multimodal Sample Questions (Q160-Q165):

NEW QUESTION # 160

You are fine-tuning a large pre-trained language model for a specific downstream task. During training, you observe that the model performs well on the training data but generalizes poorly to the validation data. Which of the following strategies could help improve the model's generalization performance?

- A. Implement early stopping based on the validation loss.
- B. Increase the training data size by collecting more data.
- C. Increase the learning rate.
- D. Increase the weight decay (L2 regularization).
- E. Decrease the learning rate.

Answer: A,B,D,E

Explanation:

Decreasing the learning rate can help the model to converge to a better solution and avoid overfitting. Increasing the training data size provides the model with more examples to learn from, improving generalization. Early stopping prevents the model from training for too long and overfitting the training data. Increasing weight decay adds more regularization, preventing the model from learning overly complex patterns. Increasing the learning rate might worsen overfitting.

NEW QUESTION # 161

You are deploying a multimodal model that uses both video and audio data for real-time emotion recognition. The model is deployed on an edge device with limited computational resources. Which optimization techniques would be MOST effective for reducing latency and improving the model's inference speed on the edge device?

- A. Using full precision (FP32) for all model operations.
- B. Transmitting the video and audio data to a cloud server for inference.
- C. Increasing the resolution of the video input.
- D. Quantizing the model to a lower precision (e.g., INT8) and pruning less important connections.
- E. Increasing the model's complexity to improve accuracy.

Answer: D

Explanation:

Quantization to a lower precision (e.g., INT8) significantly reduces the model size and computational requirements, leading to faster inference speeds on edge devices. Pruning further reduces the model's complexity. Increasing model complexity (A) or using FP32 (B) would increase latency. Offloading to the cloud (D) introduces network latency. Increasing video resolution (E) increases the computational load.

NEW QUESTION # 162

You are training a multimodal generative AI model for image captioning. After initial training, you observe that the model excels at describing common objects but struggles with nuanced details and rare objects. Which of the following performance optimization strategies would be MOST effective in addressing this issue?

- A. Increase the number of layers in the encoder network.
- B. Increase the batch size during training to improve GPU utilization.
- C. Apply early stopping to prevent overfitting to the common objects.
- D. Reduce the learning rate to fine-tune the model on the existing dataset.
- E. Implement a custom loss function that penalizes inaccuracies in describing rare objects more heavily.

Answer: E

Explanation:

Implementing a custom loss function is the most effective strategy because it directly addresses the model's weakness by focusing on

accurate descriptions of rare objects. Increasing batch size improves training speed but not necessarily accuracy. Early stopping prevents overfitting, but doesn't specifically target the issue of rare object recognition. Reducing the learning rate might help with fine-tuning, but not as effectively as a targeted loss function. Increasing the number of layers may increase complexity but not guarantee better performance on rare objects.

NEW QUESTION # 163

You are building an image generation pipeline that leverages both a U-Net and a pre-trained CLIP model. After generating an image with the U-Net, you want to use CLIP to assess how well the generated image aligns with a given text prompt. Which of the following steps are crucial for obtaining a meaningful similarity score between the image and the text using CLIP?

- A. Encode the generated image using CLIP's image encoder.
- B. Encode the text prompt using CLIP's text encoder.
- C. Fine-tune the CLIP model on your specific image generation task.
- D. Resize the generated image to a very high resolution.
- E. Calculate the cosine similarity between the image and text embeddings.

Answer: A,B,E

Explanation:

To assess the alignment between a generated image and a text prompt using CLIP, you need to encode both the image and the text into vector representations using CLIP's respective encoders (image and text encoders). Then, calculate the cosine similarity between these embeddings to quantify their semantic relatedness. Fine-tuning CLIP is not typically necessary for this purpose. High resolution is not mandatory as CLIP works well on medium resolution images and its embedded space.

NEW QUESTION # 164

You are experimenting with a text-to-image generative model. You notice that when prompted with descriptions containing specific demographic information (e.g., 'a black doctor'), the generated images consistently reflect stereotypes. What steps can you take during the experiment evaluation phase to identify and mitigate this bias? (Select TWO)

- A. Increase the size of the training dataset to dilute the effect of any biased examples.
- B. Randomly shuffle the training dataset to minimize bias.
- C. Filter out all examples containing demographic information from the training dataset.
- D. Conduct a human evaluation study where participants assess the generated images for stereotypical representations.
- E. Use a bias detection metric to quantify the presence of bias in the generated images, comparing output distributions across different demographic groups.

Answer: D,E

Explanation:

Bias detection metrics (B) and human evaluation (D) are essential for identifying and quantifying bias in generated content. Increasing data size (A) alone might not solve the issue. Filtering demographic information (C) can lead to underrepresentation and unfair outcomes. Random shuffling (E) does not directly address inherent biases in the training data.

NEW QUESTION # 165

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