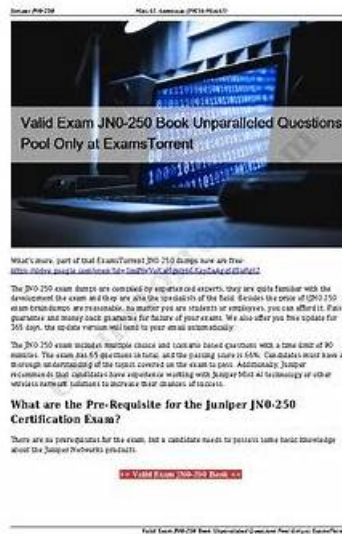


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NVIDIA Generative AI Multimodal Sample Questions (Q30-Q35):

NEW QUESTION # 30

You are developing an Avatar Cloud Engine (ACE) application for a virtual assistant that needs to generate realistic facial expressions based on user emotions detected from text. Which ACE microservice would be most directly responsible for this functionality?

- A. Lip Sync
- B. Text to Speech (TTS)
- C. Natural Language Understanding (NLU)
- D. speech to Text (STT)
- E. Facial Animation

Answer: E

Explanation:

The Facial Animation microservice within ACE is specifically designed to generate realistic facial expressions for avatars. While NLU detects the emotion, Facial Animation translates that emotion into corresponding facial movements.

NEW QUESTION # 31

You're building a multimodal model to predict stock prices using news articles (text) and historical price data (time series). You observe that the model performs well on the training data but poorly on unseen data. Which of the following techniques would be MOST effective in addressing this issue?

- A. Increase the size of the training dataset by collecting more news articles and historical price data.
- B. Implement early stopping based on the performance of the model on a validation set.
- C. Add L1 or L2 regularization to the model's parameters.
- D. All of the above
- E. Use data augmentation techniques to generate more diverse variations of the existing data.

Answer: B

Explanation:

All the listed techniques combat overfitting. Increasing data size provides more examples. Regularization penalizes complex models. Early stopping prevents training too long on the training data. Data augmentation creates more robust and generalizable model by artificially expanding data through techniques like Time series perturbation and Text paraphrasing.

NEW QUESTION # 32

You are training a conditional GAN (cGAN) to generate images of animals based on text descriptions. Which of the following is the most crucial difference in the training process of a cGAN compared to a regular GAN?

- A. The discriminator in a cGAN does not receive generated images.
- B. The discriminator in a cGAN only receives real images as input.
- C. The cGAN uses a different loss function than a regular GAN.
- D. The cGAN does not require a discriminator.
- E. The generator in a cGAN receives both random noise and the condition (text description) as input.

Answer: E

Explanation:

The key difference in a cGAN is that the generator takes an additional input, the condition (in this case, the text description), along with random noise. This allows the generator to learn a mapping from conditions to images, enabling the generation of images that match the given descriptions. The discriminator also receives the condition to evaluate if the generated image matches the corresponding condition. Other options are incorrect as Discriminator need both generated and real images with the conditioning variable to train correctly.

NEW QUESTION # 33

Which of the following techniques can be used to improve the factual accuracy of text generated by a large language model?

- A. Fine-tuning the model on a dataset of factually correct information.
- B. Increasing the model size and training it on more data.
- C. Always using the same prompt, regardless of the desired output.
- D. Applying a temperature of 0 during text generation.
- E. Using retrieval-augmented generation (RAG) to ground the model's knowledge in external sources.

Answer: A,B,E

Explanation:

Increasing model size and training data can improve factual accuracy, but it's not a guaranteed solution. Fine-tuning on factually correct data directly teaches the model to generate accurate information. RAG allows the model to access external knowledge sources and incorporate them into the generated text, which significantly improves factual accuracy. A temperature of 0 makes the model more deterministic but doesn't guarantee accuracy. Varying prompts is important for exploring the model's capabilities, but it doesn't directly address factual accuracy.

NEW QUESTION # 34

Which NVIDIA SDK would be most appropriate for building a real-time, interactive avatar that can respond to voice commands and generate realistic facial expressions?

- A. NeMo
- B. RAPIDS
- C. Avatar Cloud Engine (ACE)
- D. Triton Inference Server
- E. Riva

Answer: C

Explanation:

Avatar Cloud Engine (ACE) is specifically designed for building and deploying interactive avatars. It provides pre-built components and APIs for speech recognition, natural language understanding, and realistic avatar animation. Riva focuses primarily on speech AI, NeMo on training large language models, and Triton on model serving. RAPIDS is for data analytics and GPU-accelerated machine learning.

NEW QUESTION # 35

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