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NVIDIA Generative AI LLMs Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which of the following options describes best the NeMo Guardrails platform?

- A. Developing and designing advanced machine learning models capable of interpreting and integrating various forms of data.
- B. Ensuring the ethical use of artificial intelligence systems by monitoring and enforcing compliance with predefined rules and

regulations.

- C. Ensuring scalability and performance of large language models in pre-training and inference.
- D. Building advanced data factories for generative AI services in the context of language models.

Answer: B

Explanation:

The NVIDIA NeMo Guardrails platform is designed to ensure the ethical and safe use of AI systems, particularly LLMs, by enforcing predefined rules and regulations, as highlighted in NVIDIA's Generative AI and LLMs course. It provides a framework to monitor and control LLM outputs, preventing harmful or inappropriate responses and ensuring compliance with ethical guidelines. Option A is incorrect, as NeMo Guardrails focuses on safety, not scalability or performance. Option B is wrong, as it describes model development, not guardrails. Option D is inaccurate, as it does not pertain to data factories but to ethical AI enforcement. The course notes: "NeMo Guardrails ensures the ethical use of AI by monitoring and enforcing compliance with predefined rules, enhancing the safety and trustworthiness of LLM outputs." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 21

Which tool would you use to select training data with specific keywords?

- A. Tableau dashboard
- **B. Regular expression filter**
- C. ActionScript
- D. JSON parser

Answer: B

Explanation:

Regular expression (regex) filters are widely used in data preprocessing to select text data containing specific keywords or patterns. NVIDIA's documentation on data preprocessing for NLP tasks, such as in NeMo, highlights regex as a standard tool for filtering datasets based on textual criteria, enabling efficient data curation. For example, a regex pattern like `*keyword.*` can select all texts containing "keyword." Option A (ActionScript) is a programming language for multimedia, not data filtering. Option B (Tableau) is for visualization, not text filtering. Option C (JSON parser) is for structured data, not keyword-based text selection.

References:

NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

NEW QUESTION # 22

You have access to training data but no access to test data. What evaluation method can you use to assess the performance of your AI model?

- A. Greedy decoding
- B. Average entropy approximation
- **C. Cross-validation**
- D. Randomized controlled trial

Answer: C

Explanation:

When test data is unavailable, cross-validation is the most effective method to assess an AI model's performance using only the training dataset. Cross-validation involves splitting the training data into multiple subsets (folds), training the model on some folds, and validating it on others, repeating this process to estimate generalization performance. NVIDIA's documentation on machine learning workflows, particularly in the NeMo framework for model evaluation, highlights k-fold cross-validation as a standard technique for robust performance assessment when a separate test set is not available. Option B (randomized controlled trial) is a clinical or experimental method, not typically used for model evaluation. Option C (average entropy approximation) is not a standard evaluation method. Option D (greedy decoding) is a generation strategy for LLMs, not an evaluation technique.

References:

NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html

Goodfellow, I., et al. (2016). "Deep Learning." MIT Press.

NEW QUESTION # 23

Which calculation is most commonly used to measure the semantic closeness of two text passages?

- A. Hamming distance
- B. Euclidean distance
- C. Cosine similarity
- D. Jaccard similarity

Answer: C

Explanation:

Cosine similarity is the most commonly used metric to measure the semantic closeness of two text passages in NLP. It calculates the cosine of the angle between two vectors (e.g., word embeddings or sentence embeddings) in a high-dimensional space, focusing on the direction rather than magnitude, which makes it robust for comparing semantic similarity. NVIDIA's documentation on NLP tasks, particularly in NeMo and embedding models, highlights cosine similarity as the standard metric for tasks like semantic search or text similarity, often using embeddings from models like BERT or Sentence-BERT. Option A (Hamming distance) is for binary data, not text embeddings. Option B (Jaccard similarity) is for set-based comparisons, not semantic content. Option D (Euclidean distance) is less common for text due to its sensitivity to vector magnitude.

References:

NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

NEW QUESTION # 24

You are working on developing an application to classify images of animals and need to train a neural model.

However, you have a limited amount of labeled data. Which technique can you use to leverage the knowledge from a model pre-trained on a different task to improve the performance of your new model?

- A. Transfer learning
- B. Random initialization
- C. Early stopping
- D. Dropout

Answer: A

Explanation:

Transfer learning is a technique where a model pre-trained on a large, general dataset (e.g., ImageNet for computer vision) is fine-tuned for a specific task with limited data. NVIDIA's Deep Learning AI documentation, particularly for frameworks like NeMo and TensorRT, emphasizes transfer learning as a powerful approach to improve model performance when labeled data is scarce. For example, a pre-trained convolutional neural network (CNN) can be fine-tuned for animal image classification by reusing its learned features (e.g., edge detection) and adapting the final layers to the new task. Option A (dropout) is a regularization technique, not a knowledge transfer method. Option B (random initialization) discards pre-trained knowledge. Option D (early stopping) prevents overfitting but does not leverage pre-trained models.

References:

NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html

NVIDIA Deep Learning AI: <https://www.nvidia.com/en-us/deep-learning-ai/>

NEW QUESTION # 25

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