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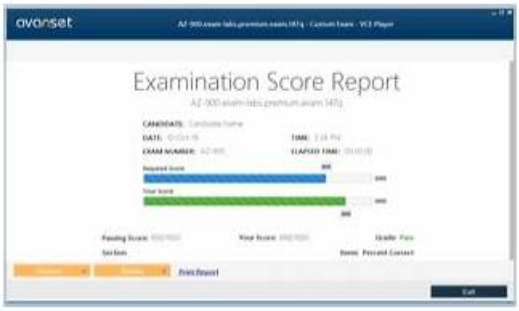

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NVIDIA Generative AI LLMs Sample Questions (Q87-Q92):

NEW QUESTION # 87
In the development of trustworthy AI systems, what is the primary purpose of implementing red-teaming exercises during the alignment process of large language models?

- A. To increase the model's parameter count for better performance.
- B. To identify and mitigate potential biases, safety risks, and harmful outputs.
- C. To optimize the model's inference speed for production deployment.
- D. To automate the collection of training data for fine-tuning.

Answer: B

Explanation:
Red-teaming exercises involve systematically testing a large language model (LLM) by probing it with adversarial or challenging inputs to uncover vulnerabilities, such as biases, unsafe responses, or harmful outputs. NVIDIA's Trustworthy AI framework emphasizes red-teaming as a critical stepin the alignment process to ensure LLMs adhere to ethical standards and societal values. By simulating worst-case scenarios, red-teaming helps developers identify and mitigate risks, such as generating toxic content or

reinforcing stereotypes, before deployment. Option A is incorrect, as red-teaming focuses on safety, not speed. Option C is false, as it does not involve model size. Option D is wrong, as red-teaming is about evaluation, not data collection.
References:
NVIDIA Trustworthy AI: https://www.nvidia.com/en-us/ai-data-science/trustworthy-ai/

NEW QUESTION # 88
Which of the following options describes best the NeMo Guardrails platform?

- A. Ensuring the ethical use of artificial intelligence systems by monitoring and enforcing compliance with predefined rules and regulations.
- B. Ensuring scalability and performance of large language models in pre-training and inference.
- C. Building advanced data factories for generative AI services in the context of language models.
- D. Developing and designing advanced machine learning models capable of interpreting and integrating various forms of data.

Answer: A

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 # 89
What is the purpose of few-shot learning in prompt engineering?

- A. To fine-tune a model on a massive dataset
- B. To optimize hyperparameters
- C. To give a model some examples
- D. To train a model from scratch

Answer: C

Explanation:
Few-shot learning in prompt engineering involves providing a small number of examples (demonstrations) within the prompt to guide a large language model (LLM) to perform a specific task without modifying its weights. NVIDIA's NeMo documentation on prompt-based learning explains that few-shot prompting leverages the model's pre-trained knowledge by showing it a few input-output pairs, enabling it to generalize to new tasks. For example, providing two examples of sentiment classification in a prompt helps the model understand the task. Option B is incorrect, as few-shot learning does not involve training from scratch. Option C is wrong, as hyperparameter optimization is a separate process. Option D is false, as few-shot learning avoids large-scale fine-tuning.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html
Brown, T., et al. (2020). "Language Models are Few-Shot Learners."

NEW QUESTION # 90
In Exploratory Data Analysis (EDA) for Natural Language Understanding (NLU), which method is essential for understanding the contextual relationship between words in textual data?

- A. Applying sentiment analysis to gauge the overall sentiment expressed in a text.
- B. Computing the frequency of individual words to identify the most common terms in a text.
- C. Generating word clouds to visually represent word frequency and highlight key terms.
- D. Creating n-gram models to analyze patterns of word sequences like bigrams and trigrams.

Answer: D

Explanation:
In Exploratory Data Analysis (EDA) for Natural Language Understanding (NLU), creating n-gram models is essential for understanding the contextual relationships between words, as highlighted in NVIDIA's Generative AI and LLMs course. N-grams (e.g., bigrams, trigrams) capture sequences of words, revealing patterns and dependencies in text, such as common phrases or syntactic structures, which are critical for NLU tasks like text generation or classification. Unlike single-word frequency analysis, n-grams provide insight into how words relate to each other in context. Option A is incorrect, as computing word frequencies focuses on individual terms, missing contextual relationships. Option B is wrong, as sentiment analysis targets overall text sentiment, not word relationships. Option C is inaccurate, as word clouds visualize frequency, not contextual patterns. The course notes: "N-gram models are used in EDA for NLU to analyze word sequence patterns, such as bigrams and trigrams, to understand contextual relationships in textual data." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 91
In the context of developing an AI application using NVIDIA's NGC containers, how does the use of containerized environments enhance the reproducibility of LLM training and deployment workflows?

- A. Containers encapsulate dependencies and configurations, ensuring consistent execution across systems.
- B. Containers enable direct access to GPU hardware without driver installation.
- C. Containers reduce the model's memory footprint by compressing the neural network.
- D. Containers automatically optimize the model's hyperparameters for better performance.

Answer: A

Explanation:
NVIDIA's NGC (NVIDIA GPU Cloud) containers provide pre-configured environments for AI workloads, enhancing reproducibility by encapsulating dependencies, libraries, and configurations. According to NVIDIA's NGC documentation, containers ensure that LLM training and deployment workflows run consistently across different systems (e.g., local workstations, cloud, or clusters) by isolating the environment from host system variations. This is critical for maintaining consistent results in research and production.
Option A is incorrect, as containers do not optimize hyperparameters. Option C is false, as containers do not compress models. Option D is misleading, as GPU drivers are still required on the host system.
References:
NVIDIA NGC Documentation: https://docs.nvidia.com/ngc/ngc-overview/index.html

NEW QUESTION # 92
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