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## NVIDIA NCA-GENL Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • Alignment: This section of the exam measures the skills of AI Policy Engineers and covers techniques to align LLM outputs with human intentions and values. It includes safety mechanisms, ethical safeguards, and tuning strategies to reduce harmful, biased, or inaccurate results from models. |
| Topic 2 | • Software Development: This section of the exam measures the skills of Machine Learning Developers and covers writing efficient, modular, and scalable code for AI applications. It includes software engineering principles, version control, testing, and documentation practices relevant to LLM-based development. |
| Topic 3 | • Prompt Engineering: This section of the exam measures the skills of Prompt Designers and covers how to craft effective prompts that guide LLMs to produce desired outputs. It focuses on prompt strategies, formatting, and iterative refinement techniques used in both development and real-world applications of LLMs. |
| Topic 4 | • This section of the exam measures skills of AI Product Developers and covers how to strategically plan experiments that validate hypotheses, compare model variations, or test model responses. It focuses on structure, controls, and variables in experimentation. |
| Topic 5 | • Experimentation: This section of the exam measures the skills of ML Engineers and covers how to conduct structured experiments with LLMs. It involves setting up test cases, tracking performance metrics, and making informed decisions based on experimental outcomes.: |

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## NVIDIA Generative AI LLMs exam pdf guide & NCA-GENL prep sure exam

The education level of the country has been continuously improved. At present, there are more and more people receiving higher education, and even many college graduates still choose to continue studying in school. Getting the test NCA-GENL certification maybe they need to achieve the goal of the learning process, have been working for the workers, have more qualifications can they

provide wider space for development. The NCA-GENL Actual Exam guide can provide them with efficient and convenient learning platform so that they can get the certification as soon as possible in the shortest possible time. A high degree may be a sign of competence, getting the test NCA-GENL certification is also a good choice. When we get enough certificates, we have more options to create a better future.

## NVIDIA Generative AI LLMs Sample Questions (Q55-Q60):

**NEW QUESTION # 55**
When designing prompts for a large language model to perform a complex reasoning task, such as solving a multi-step mathematical problem, which advanced prompt engineering technique is most effective in ensuring robust performance across diverse inputs?

- A. Retrieval-augmented generation with external mathematical databases.
- B. Zero-shot prompting with a generic task description.
- C. Chain-of-thought prompting with step-by-step reasoning examples.
- D. Few-shot prompting with randomly selected examples.

**Answer: C**

Explanation:
Chain-of-thought (CoT) prompting is an advanced prompt engineering technique that significantly enhances a large language model's (LLM) performance on complex reasoning tasks, such as multi-step mathematical problems. By including examples that explicitly demonstrate step-by-step reasoning in the prompt, CoT guides the model to break down the problem into intermediate steps, improving accuracy and robustness.
NVIDIA's NeMo documentation on prompt engineering highlights CoT as a powerful method for tasks requiring logical or sequential reasoning, as it leverages the model's ability to mimic structured problem- solving. Research by Wei et al. (2022) demonstrates that CoT outperforms other methods for mathematical reasoning. Option A (zero-shot) is less effective for complex tasks due to lack of guidance. Option B (few- shot with random examples) is suboptimal without structured reasoning. Option D (RAG) is useful for factual queries but less relevant for pure reasoning tasks.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp /intro.html
Wei, J., et al. (2022). "Chain-of-Thought Prompting Elicits Reasoning in Large Language Models."

**NEW QUESTION # 56**
Which technology will allow you to deploy an LLM for production application?

- A. Falcon
- B. Triton
- C. Git
- D. Pandas

**Answer: B**

Explanation:
NVIDIA Triton Inference Server is a technology specifically designed for deploying machine learning models, including large language models (LLMs), in production environments. It supports high-performance inference, model management, and scalability across GPUs, making it ideal for real-time LLM applications.
According to NVIDIA's Triton Inference Server documentation, it supports frameworks like PyTorch and TensorFlow, enabling efficient deployment of LLMs with features like dynamic batching and model ensemble. Option A (Git) is a version control system, not a deployment tool. Option B (Pandas) is a data analysis library, irrelevant to model deployment. Option C (Falcon) refers to a specific LLM, not a deployment platform.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server /user-guide/docs/index.html

**NEW QUESTION # 57**
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 enable direct access to GPU hardware without driver installation.
- B. Containers reduce the model's memory footprint by compressing the neural network.
- C. Containers encapsulate dependencies and configurations, ensuring consistent execution across systems.
- D. Containers automatically optimize the model's hyperparameters for better performance.

**Answer: C**

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 # 58**
In the Transformer architecture, which of the following statements about the Q (query), K (key), and V (value) matrices is correct?

- A. Q, K, and V are randomly initialized weight matrices used for positional encoding.
- B. K is responsible for computing the attention scores between the query and key vectors.
- C. V is used to calculate the positional embeddings for each token in the input sequence.
- D. Q represents the query vector used to retrieve relevant information from the input sequence.

**Answer: D**

Explanation:
In the transformer architecture, the Q (query), K (key), and V (value) matrices are used in the self-attention mechanism to compute relationships between tokens in a sequence. According to "Attention is All You Need" (Vaswani et al., 2017) and NVIDIA's NeMo documentation, the query vector (Q) represents the token seeking relevant information, the key vector (K) is used to compute compatibility with other tokens, and the value vector (V) provides the information to be retrieved. The attention score is calculated as a scaled dot- product of Q and K, and the output is a weighted sum of V. Option C is correct, as Q retrieves relevant information. Option A is incorrect, as Q, K, and V are not used for positional encoding. Option B is wrong, as attention scores are computed using both Q and K, not K alone. Option D is false, as positional embeddings are separate from V.
References:
Vaswani, A., et al. (2017). "Attention is All You Need."
NVIDIA NeMo Documentation:https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html

**NEW QUESTION # 59**
What is the purpose of the NVIDIA NGC catalog?

- A. To provide a platform for testing and debugging software applications.
- B. To provide a platform for developers to collaborate and share software development projects.
- C. To provide a curated collection of GPU-optimized AI and data science software.
- D. To provide a marketplace for buying and selling software development tools and resources.

**Answer: C**

Explanation:
The NVIDIA NGC catalog is a curated repository of GPU-optimized software for AI, machine learning, and data science, as highlighted in NVIDIA's Generative AI and LLMs course. It provides developers with pre- built containers, pre-trained models, and tools optimized for NVIDIA GPUs, enabling faster development and deployment of AI solutions, including LLMs. These resources are designed to streamline workflows and ensure compatibility with NVIDIA hardware. Option A is incorrect, as NGC is not primarily for testing or debugging but for providing optimized software. Option B is wrong, as it is not a collaboration platform like GitHub. Option C is inaccurate, as NGC is not a marketplace for buying and selling but a free resource hub.
The course notes: "The NVIDIA NGC catalog offers a curated collection of GPU-optimized AI and data science software,

including containers and models, to accelerate development and deployment." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

**NEW QUESTION # 60**

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