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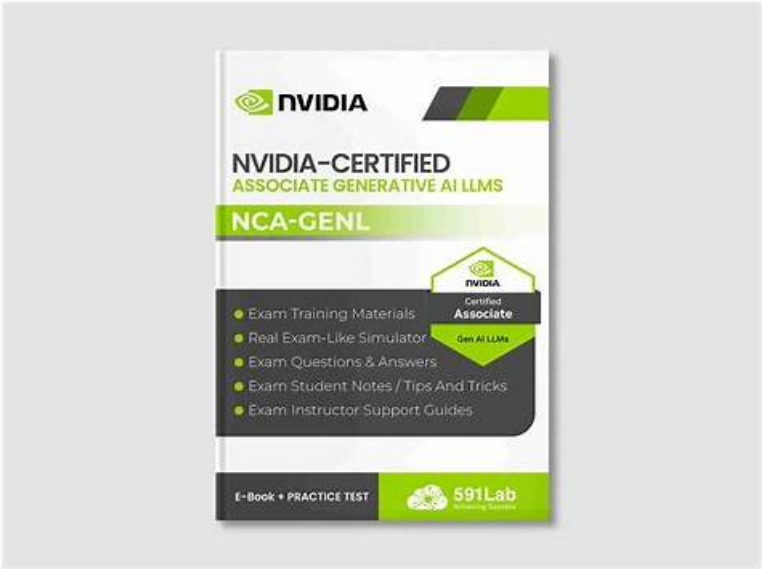

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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• LLM integration and deployment: Addresses connecting LLMs into real-world applications and deploying them reliably across production environments.
Topic 2	• Fundamentals of machine learning and neural networks: Covers the core concepts of how machine learning models learn from data, including the structure and function of neural networks that underpin large language models.
Topic 3	• Software development: Covers the programming practices and coding skills required to build, maintain, and deploy generative AI applications.
Topic 4	• Experiment design: Focuses on structuring controlled tests and workflows to systematically evaluate LLM performance and outcomes.
Topic 5	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.
Topic 6	• Experimentation: Explores running and evaluating trials to test model behavior, compare approaches, and validate generative AI solutions.

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Free PDF Quiz 2026 NVIDIA NCA-GENL: NVIDIA Generative AI LLMs – High-quality Braindumps Torrent

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

NEW QUESTION # 30
Which of the following is a key characteristic of Rapid Application Development (RAD)?

- A. Extensive upfront planning before any development.
- B. Iterative prototyping with active user involvement.
- C. Minimal user feedback during the development process.
- D. Linear progression through predefined project phases.

Answer: B

Explanation:
Rapid Application Development (RAD) is a software development methodology that emphasizes iterative prototyping and active user involvement to accelerate development and ensure alignment with user needs.
NVIDIA's documentation on AI application development, particularly in the context of NGC (NVIDIA GPU Cloud) and software workflows, aligns with RAD principles for quickly building and iterating on AI-driven applications. RAD involves creating prototypes, gathering user feedback, and refining the application iteratively, unlike traditional waterfall models. Option B is incorrect, as RAD minimizes upfront planning in favor of flexibility. Option C describes a linear waterfall approach, not RAD. Option D is false, as RAD relies heavily on user feedback.
References:
NVIDIA NGC Documentation: https://docs.nvidia.com/ngc/ngc-overview/index.html

NEW QUESTION # 31
How does A/B testing contribute to the optimization of deep learning models' performance and effectiveness in real-world applications? (Pick the 2 correct responses)

- A. A/B testing guarantees immediate performance improvements in deep learning models without the need for further analysis or experimentation.
- B. A/B testing helps validate the impact of changes or updates to deep learning models by statistically analyzing the outcomes of different versions to make informed decisions for model optimization.
- C. A/B testing in deep learning models is primarily used for selecting the best training dataset without requiring a model architecture or parameters.
- D. A/B testing is irrelevant in deep learning as it only applies to traditional statistical analysis and not complex neural network models.
- E. A/B testing allows for the comparison of different model configurations or hyperparameters to identify the most effective setup for improved performance.

Answer: B,E

Explanation:
A/B testing is a controlled experimentation technique used to compare two versions of a system to determine which performs better. In the context of deep learning, NVIDIA's documentation on model optimization and deployment (e.g., Triton Inference Server) highlights its use in evaluating model performance:
* Option A: A/B testing validates changes (e.g., model updates or new features) by statistically comparing outcomes (e.g., accuracy or user engagement), enabling data-driven optimization decisions.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server /user-guide/docs/index.html

NEW QUESTION # 32
Which of the following prompt engineering techniques is most effective for improving an LLM's performance on multi-step reasoning tasks?

- A. Zero-shot prompting with detailed task descriptions.
- B. Chain-of-thought prompting with explicit intermediate steps.
- C. Retrieval-augmented generation without context
- D. Few-shot prompting with unrelated examples.

Answer: B

Explanation:
Chain-of-thought (CoT) prompting is a highly effective technique for improving large language model (LLM) performance on multi-step reasoning tasks. By including explicit intermediate steps in the prompt, CoT guides the model to break down complex problems into manageable parts, improving reasoning accuracy. NVIDIA's NeMo documentation on prompt engineering highlights CoT as a powerful method for tasks like mathematical reasoning or logical problem-solving, as it leverages the model's ability to follow structured reasoning paths. Option A is incorrect, as retrieval-augmented generation (RAG) without context is less effective for reasoning tasks. Option B is wrong, as unrelated examples in few-shot prompting do not aid reasoning. Option C (zero-shot prompting) is less effective than CoT for complex reasoning.
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 # 33
Which model deployment framework is used to deploy an NLP project, especially for high-performance inference in production environments?

- A. NVIDIA DeepStream
- B. HuggingFace
- C. NVIDIA Triton
- D. NeMo

Answer: C

Explanation:
NVIDIA Triton Inference Server is a high-performance framework designed for deploying machine learning models, including NLP models, in production environments. It supports optimized inference on GPUs, dynamic batching, and integration with frameworks like PyTorch and TensorFlow. According to NVIDIA's Triton documentation, it is ideal for deploying LLMs for real-time applications with low latency. Option A (DeepStream) is for video analytics, not NLP. Option B (HuggingFace) is a library for model development, not deployment. Option C (NeMo) is for training and fine-tuning, not production deployment.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server/user-guide/docs/index.html

NEW QUESTION # 34
Which of the following tasks is a primary application of XGBoost and cuML?

- A. Training deep learning models
- B. Data visualization and analysis
- C. Performing GPU-accelerated machine learning tasks
- D. Inspecting, cleansing, and transforming data

Answer: C

Explanation:
Both XGBoost (with its GPU-enabled training) and cuML offer GPU-accelerated implementations of machine learning algorithms, such as gradient boosting, clustering, and dimensionality reduction, enabling much faster model training and inference.

NEW QUESTION # 35
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