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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Fundamentals of Machine Learning and Neural Networks: This section of the exam measures the skills of AI Researchers and covers the foundational principles behind machine learning and neural networks, focusing on how these concepts underpin the development of large language models (LLMs). It ensures the learner understands the basic structure and learning mechanisms involved in training generative AI systems.
Topic 2	• 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 3	• Data Preprocessing and Feature Engineering: This section of the exam measures the skills of Data Engineers and covers preparing raw data into usable formats for model training or fine-tuning. It includes cleaning, normalizing, tokenizing, and feature extraction methods essential to building robust LLM pipelines.
Topic 4	• 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.:

Topic 5	Experiment Design
Topic 6	Python Libraries for LLMs: This section of the exam measures skills of LLM Developers and covers using Python tools and frameworks like Hugging Face Transformers, LangChain, and PyTorch to build, fine-tune, and deploy large language models. It focuses on practical implementation and ecosystem familiarity.
Topic 7	Data Analysis and Visualization: This section of the exam measures the skills of Data Scientists and covers interpreting, cleaning, and presenting data through visual storytelling. It emphasizes how to use visualization to extract insights and evaluate model behavior, performance, or training data patterns.
Topic 8	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 9	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 10	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.

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NVIDIA Generative AI LLMs Sample Questions (Q70-Q75):

NEW QUESTION # 70

Which of the following is a key characteristic of Rapid Application Development (RAD)?

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

Answer: C

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 # 71

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

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

Answer: D

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 # 72

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

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

Answer: D

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 # 73

In the context of fine-tuning LLMs, which of the following metrics is most commonly used to assess the performance of a fine-tuned model?

- A. Training duration
- **B. Accuracy on a validation set**
- C. Number of layers
- D. Model size

Answer: B

Explanation:

When fine-tuning large language models (LLMs), the primary goal is to improve the model's performance on a specific task. The most common metric for assessing this performance is accuracy on a validation set, as it directly measures how well the model

generalizes to unseen data. NVIDIA's NeMo framework documentation for fine-tuning LLMs emphasizes the use of validation metrics such as accuracy, F1 score, or task-specific metrics (e.g., BLEU for translation) to evaluate model performance during and after fine-tuning.

These metrics provide a quantitative measure of the model's effectiveness on the target task. Options A, C, and D (model size, training duration, and number of layers) are not performance metrics; they are either architectural characteristics or training parameters that do not directly reflect the model's effectiveness.

References:

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

NEW QUESTION # 74

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NEW QUESTION # 75

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