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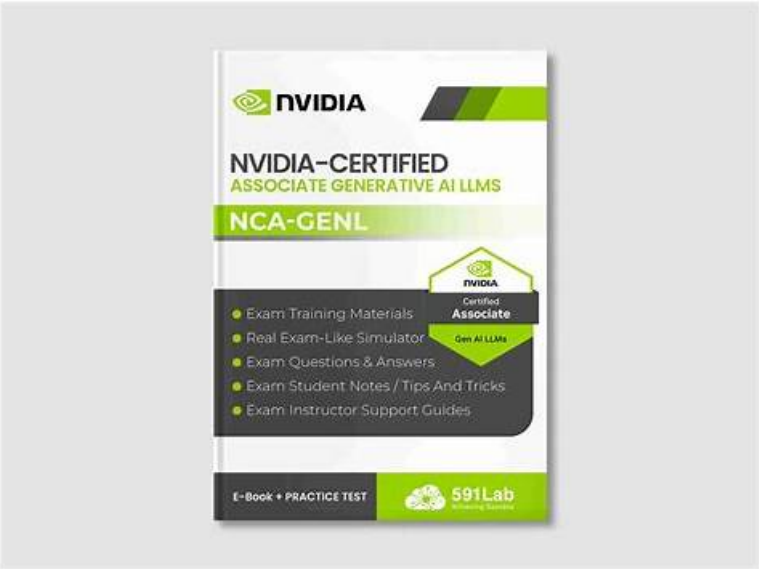

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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Alignment: Addresses methods for ensuring LLM behavior is safe, accurate, and consistent with human intentions and values.
Topic 3	• Prompt engineering: Focuses on techniques for designing and refining input prompts to effectively guide LLM outputs toward desired results.
Topic 4	• Data analysis and visualization: Covers interpreting datasets and presenting insights through visual tools to support informed model development decisions.
Topic 5	• Experimentation: Explores running and evaluating trials to test model behavior, compare approaches, and validate generative AI solutions.
Topic 6	• Python libraries for LLMs: Covers key Python frameworks and tools — such as LangChain, Hugging Face, and similar libraries — used to build and interact with LLMs.
Topic 7	• Experiment design: Focuses on structuring controlled tests and workflows to systematically evaluate LLM performance and outcomes.
Topic 8	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.

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NVIDIA Generative AI LLMs Sample Questions (Q10-Q15):

NEW QUESTION # 10
In the context of preparing a multilingual dataset for fine-tuning an LLM, which preprocessing technique is most effective for handling text from diverse scripts (e.g., Latin, Cyrillic, Devanagari) to ensure consistent model performance?

- A. Converting text to phonetic representations for cross-lingual alignment.
- B. Applying Unicode normalization to standardize character encodings.
- C. Removing all non-Latin characters to simplify the input.
- D. Normalizing all text to a single script using transliteration.

Answer: B

Explanation:
When preparing a multilingual dataset for fine-tuning an LLM, applying Unicode normalization (e.g., NFKC or NFC forms) is the most effective preprocessing technique to handle text from diverse scripts like Latin, Cyrillic, or Devanagari. Unicode normalization standardizes character encodings, ensuring that visually identical characters (e.g., precomposed vs. decomposed forms) are represented consistently, which improves model performance across languages. NVIDIA's NeMo documentation on multilingual NLP preprocessing recommends Unicode normalization to address encoding inconsistencies in diverse datasets. Option A (transliteration) may lose linguistic nuances. Option C (removing non-Latin characters) discards critical information. Option D (phonetic conversion) is impractical for text-based LLMs.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html

NEW QUESTION # 11
Transformers are useful for language modeling because their architecture is uniquely suited for handling which of the following?

- A. Class tokens
- B. Translations
- C. Long sequences
- D. Embeddings

Answer: C

Explanation:
The transformer architecture, introduced in "Attention is All You Need" (Vaswani et al., 2017), is particularly effective for language modeling due to its ability to handle long sequences. Unlike RNNs, which struggle with long-term dependencies due to sequential processing, transformers use self-attention mechanisms to process all tokens in a sequence simultaneously, capturing relationships across long distances. NVIDIA's NeMo documentation emphasizes that transformers excel in tasks like language modeling because their attention mechanisms scale well with sequence length, especially with optimizations like sparse attention or efficient attention variants. Option B (embeddings) is a component, not a unique strength. Option C (class tokens) is specific to certain models like BERT, not a general transformer feature. Option D (translations) is an application, not a structural advantage.
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 # 12
Which of the following tasks is a primary application of XGBoost and cuML?

- A. Data visualization and analysis
- B. Training deep learning models
- 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 # 13
In the development of Trustworthy AI, what is the significance of 'Certification' as a principle?

- A. It involves verifying that AI models are fit for their intended purpose according to regional or industry- specific standards.
- B. It requires AI systems to be developed with an ethical consideration for societal impacts.
- C. It mandates that AI models comply with relevant laws and regulations specific to their deployment region and industry.
- D. It ensures that AI systems are transparent in their decision-making processes.

Answer: A

Explanation:
In the development of Trustworthy AI, 'Certification' as a principle involves verifying that AI models are fit for their intended purpose according to regional or industry-specific standards, as discussed in NVIDIA's Generative AI and LLMs course. Certification ensures that models meet performance, safety, and ethical benchmarks, providing assurance to stakeholders about their reliability and appropriateness. Option A is incorrect, as transparency is a separate principle, not certification. Option B is wrong, as ethical considerations are broader and not specific to certification. Option D is inaccurate, as compliance with laws is related but distinct from certification's focus on fitness for purpose. The course states: "Certification in Trustworthy AI verifies that models meet regional or industry-specific standards, ensuring they are fit for their intended purpose and reliable." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 14
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 # 15
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