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For the challenging NVIDIA Generative AI LLMs (NCA-GENL) exam, they make an effort to locate reputable and recent Treasury with NVIDIA Generative AI LLMs (NCA-GENL) practice questions. The high anxiety and demanding workload the candidate must face being qualified for the Treasury with NVIDIA Generative AI LLMs (NCA-GENL) certification are more difficult than only passing the NVIDIA Generative AI LLMs (NCA-GENL) exam.

NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• LLM Integration and Deployment: This section of the exam measures skills of AI Platform Engineers and covers connecting LLMs with applications or services through APIs, and deploying them securely and efficiently at scale. It also includes considerations for latency, cost, monitoring, and updates in production environments.
Topic 2	• Experiment Design
Topic 3	• 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 4	• 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 5	• 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 6	• 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 7	• 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 8	• 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 9	• 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 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 (Q50-Q55):

NEW QUESTION # 50
You have access to training data but no access to test data. What evaluation method can you use to assess the performance of your AI model?

- A. Average entropy approximation
- B. Randomized controlled trial
- C. Greedy decoding
- D. Cross-validation

Answer: D

Explanation:
When test data is unavailable, cross-validation is the most effective method to assess an AI model's performance using only the training dataset. Cross-validation involves splitting the training data into multiple subsets (folds), training the model on some folds, and validating it on others, repeating this process to estimate generalization performance. NVIDIA's documentation on machine learning workflows, particularly in the NeMo framework for model evaluation, highlights k-fold cross-validation as a standard technique for robust performance assessment when a separate test set is not available. Option B (randomized controlled trial) is a clinical or experimental method, not typically used for model evaluation. Option C (average entropy approximation) is not a standard

evaluation method. Option D (greedy decoding) is a generation strategy for LLMs, not an evaluation technique.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html
Goodfellow, I., et al. (2016). "Deep Learning." MIT Press.

NEW QUESTION # 51
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. Generating word clouds to visually represent word frequency and highlight key terms.
- B. Applying sentiment analysis to gauge the overall sentiment expressed in a text.
- C. Creating n-gram models to analyze patterns of word sequences like bigrams and trigrams.
- D. Computing the frequency of individual words to identify the most common terms in a text.

Answer: C

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 # 52
Which tool would you use to select training data with specific keywords?

- A. Tableau dashboard
- B. ActionScript
- C. JSON parser
- D. Regular expression filter

Answer: D

Explanation:
Regular expression (regex) filters are widely used in data preprocessing to select text data containing specific keywords or patterns. NVIDIA's documentation on data preprocessing for NLP tasks, such as in NeMo, highlights regex as a standard tool for filtering datasets based on textual criteria, enabling efficient data curation. For example, a regex pattern like .*keyword.* can select all texts containing "keyword." Option A (ActionScript) is a programming language for multimedia, not data filtering. Option B (Tableau) is for visualization, not text filtering. Option C (JSON parser) is for structured data, not keyword-based text selection.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html

NEW QUESTION # 53
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. Few-shot prompting with randomly selected examples.
- C. Chain-of-thought prompting with step-by-step reasoning examples.
- D. Zero-shot prompting with a generic task description.

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 # 54
Which calculation is most commonly used to measure the semantic closeness of two text passages?

- A. Jaccard similarity
- B. Cosine similarity
- C. Euclidean distance
- D. Hamming distance

Answer: B

Explanation:
Cosine similarity is the most commonly used metric to measure the semantic closeness of two text passages in NLP. It calculates the cosine of the angle between two vectors (e.g., word embeddings or sentence embeddings) in a high-dimensional space, focusing on the direction rather than magnitude, which makes it robust for comparing semantic similarity. NVIDIA's documentation on NLP tasks, particularly in NeMo and embedding models, highlights cosine similarity as the standard metric for tasks like semantic search or text similarity, often using embeddings from models like BERT or Sentence-BERT. Option A (Hamming distance) is for binary data, not text embeddings. Option B (Jaccard similarity) is for set-based comparisons, not semantic content. Option D (Euclidean distance) is less common for text due to its sensitivity to vector magnitude.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html

NEW QUESTION # 55
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