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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Experiment Design

Topic 2	- 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 3	- 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 4	- 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 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.:
Topic 6	- 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 7	- 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 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.

NVIDIA Generative AI LLMs Sample Questions (Q92-Q97):

NEW QUESTION # 92
"Hallucinations" is a term coined to describe when LLM models produce what?

- A. Images from a prompt description.
- B. Grammatically incorrect or broken outputs.
- C. Outputs are only similar to the input data.
- D. Correct sounding results that are wrong.

Answer: D

Explanation:
In the context of LLMs, "hallucinations" refer to outputs that sound plausible and correct but are factually incorrect or fabricated, as emphasized in NVIDIA's Generative AI and LLMs course. This occurs when models generate responses based on patterns in training data without grounding in factual knowledge, leading to misleading or invented information. Option A is incorrect, as hallucinations are not about similarity to input data but about factual inaccuracies. Option B is wrong, as hallucinations typically refer to text, not image generation. Option D is inaccurate, as hallucinations are grammatically coherent but factually wrong. The course states: "Hallucinations in LLMs occur when models produce correct-sounding but factually incorrect outputs, posing challenges for ensuring trustworthy AI." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 93
Which of the following prompt engineering techniques is most effective for improving an LLM's performance on multi-step reasoning tasks?

- A. Chain-of-thought prompting with explicit intermediate steps.

- B. Few-shot prompting with unrelated examples.
- C. Retrieval-augmented generation without context
- D. Zero-shot prompting with detailed task descriptions.

Answer: A

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 # 94
Which of the following optimizations are provided by TensorRT? (Choose two.)

- A. Residual connections
- B. Multi-Stream Execution
- C. Layer Fusion
- D. Variable learning rate
- E. Data augmentation

Answer: B,C

Explanation:
NVIDIA TensorRT provides optimizations to enhance the performance of deep learning models during inference, as detailed in NVIDIA's Generative AI and LLMs course. Two key optimizations are multi-stream execution and layer fusion. Multi-stream execution allows parallel processing of multiple input streams on the GPU, improving throughput for concurrent inference tasks. Layer fusion combines multiple layers of a neural network (e.g., convolution and activation) into a single operation, reducing memory access and computation time. Option A, data augmentation, is incorrect, as it is a preprocessing technique, not a TensorRT optimization. Option B, variable learning rate, is a training technique, not relevant to inference. Option E, residual connections, is a model architecture feature, not a TensorRT optimization. The course states:
"TensorRT optimizes inference through techniques like layer fusion, which combines operations to reduce overhead, and multi-stream execution, which enables parallel processing for higher throughput." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 95
In the context of language models, what does an autoregressive model predict?

- A. The next token solely using recurrent network or LSTM cells.
- B. The probability of the next token using a Monte Carlo sampling of past tokens.
- C. The probability of the next token in a text given the previous tokens.
- D. The probability of the next token by looking at the previous and future input tokens.

Answer: C

Explanation:
Autoregressive models are a cornerstone of modern language modeling, particularly in large language models (LLMs) like those discussed in NVIDIA's Generative AI and LLMs course. These models predict the probability of the next token in a sequence based solely on the preceding tokens, making them inherently sequential and unidirectional. This process is often referred to as "next-token prediction," where the model learns to generate text by estimating the conditional probability distribution of the next token given the context of all previous tokens. For example, given the sequence "The cat is," the model predicts the likelihood of the next word being "on," "in," or another token. This approach is fundamental to models like GPT, which rely on autoregressive decoding to generate coherent text. Unlike bidirectional models (e.g., BERT), which consider both previous and future tokens, autoregressive

models focus only on past tokens, making option D incorrect. Options B and C are also inaccurate, as Monte Carlo sampling is not a standard method for next- token prediction in autoregressive models, and the prediction is not limited to recurrent networks or LSTM cells, as modern LLMs often use Transformer architectures. The course emphasizes this concept in the context of Transformer-based NLP: "Learn the basic concepts behind autoregressive generative models, including next-token prediction and its implementation within Transformer-based models." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 96

Which of the following best describes the purpose of attention mechanisms in transformer models?

- A. To convert text into numerical representations.
- B. To focus on relevant parts of the input sequence for use in the downstream task.
- C. To compress the input sequence for faster processing.
- D. To generate random noise for improved model robustness.

Answer: B

Explanation:
Attention mechanisms in transformer models, as introduced in "Attention is All You Need" (Vaswani et al., 2017), allow the model to focus on relevant parts of the input sequence by assigning higher weights to important tokens during processing. NVIDIA's NeMo documentation explains that self-attention enables transformers to capture long-range dependencies and contextual relationships, making them effective for tasks like language modeling and translation. Option B is incorrect, as attention does not compress sequences but processes them fully. Option C is false, as attention is not about generating noise. Option D refers to embeddings, not attention.
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 # 97

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