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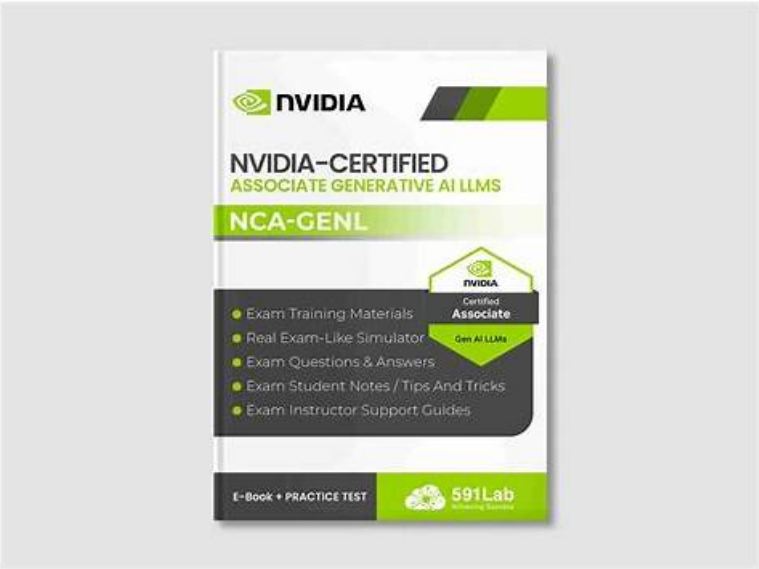

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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• LLM integration and deployment: Addresses connecting LLMs into real-world applications and deploying them reliably across production environments.
Topic 2	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.
Topic 3	• Software development: Covers the programming practices and coding skills required to build, maintain, and deploy generative AI applications.
Topic 4	• Experimentation: Explores running and evaluating trials to test model behavior, compare approaches, and validate generative AI solutions.
Topic 5	• Data analysis and visualization: Covers interpreting datasets and presenting insights through visual tools to support informed model development decisions.

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NVIDIA Generative AI LLMs Sample Questions (Q50-Q55):

NEW QUESTION # 50
You are working on developing an application to classify images of animals and need to train a neural model.
However, you have a limited amount of labeled data. Which technique can you use to leverage the knowledge from a model pre-trained on a different task to improve the performance of your new model?

- A. Dropout
- B. Random initialization
- C. Early stopping
- D. Transfer learning

Answer: D

Explanation:
Transfer learning is a technique where a model pre-trained on a large, general dataset (e.g., ImageNet for computer vision) is fine-tuned for a specific task with limited data. NVIDIA's Deep Learning AI documentation, particularly for frameworks like NeMo and TensorRT, emphasizes transfer learning as a powerful approach to improve model performance when labeled data is scarce. For example, a pre-trained convolutional neural network (CNN) can be fine-tuned for animal image classification by reusing its learned features (e.g., edge detection) and adapting the final layers to the new task. Option A (dropout) is a regularization technique, not a knowledge transfer method. Option B (random initialization) discards pre- trained knowledge. Option D (early stopping) prevents overfitting but does not leverage pre-trained models.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html
NVIDIA Deep Learning AI:https://www.nvidia.com/en-us/deep-learning-ai/

NEW QUESTION # 51
In the context of developing an AI application using NVIDIA's NGC containers, how does the use of containerized environments enhance the reproducibility of LLM training and deployment workflows?

- A. Containers encapsulate dependencies and configurations, ensuring consistent execution across systems.
- B. Containers enable direct access to GPU hardware without driver installation.
- C. Containers automatically optimize the model's hyperparameters for better performance.
- D. Containers reduce the model's memory footprint by compressing the neural network.

Answer: A

Explanation:
NVIDIA's NGC (NVIDIA GPU Cloud) containers provide pre-configured environments for AI workloads, enhancing reproducibility by encapsulating dependencies, libraries, and configurations. According to NVIDIA's NGC documentation, containers ensure that LLM training and deployment workflows run consistently across different systems (e.g., local workstations, cloud, or clusters) by isolating the environment from host system variations. This is critical for maintaining consistent results in research and production.
Option A is incorrect, as containers do not optimize hyperparameters. Option C is false, as containers do not compress models. Option D is misleading, as GPU drivers are still required on the host system.
References:
NVIDIA NGC Documentation: https://docs.nvidia.com/ngc/ngc-overview/index.html

NEW QUESTION # 52
What is the purpose of few-shot learning in prompt engineering?

- A. To fine-tune a model on a massive dataset
- B. To give a model some examples
- C. To optimize hyperparameters
- D. To train a model from scratch

Answer: B

Explanation:
Few-shot learning in prompt engineering involves providing a small number of examples (demonstrations) within the prompt to guide a large language model (LLM) to perform a specific task without modifying its weights. NVIDIA's NeMo documentation on prompt-based learning explains that few-shot prompting leverages the model's pre-trained knowledge by showing it a few input-output pairs, enabling it to generalize to new tasks. For example, providing two examples of sentiment classification in a prompt helps the model understand the task. Option B is incorrect, as few-shot learning does not involve training from scratch. Option C is wrong, as hyperparameter optimization is a separate process. Option D is false, as few-shot learning avoids large-scale fine-tuning.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html
Brown, T., et al. (2020). "Language Models are Few-Shot Learners."

NEW QUESTION # 53
What is the purpose of the NVIDIA NeMo Toolkit?

- A. NeMo facilitates the creation of models for speech recognition and natural language understanding.
- B. NeMo helps researchers to develop models that trade-off size with minimum loss impact.
- C. NeMo helps researchers develop state-of-the-art models for computer vision based on convolutions.
- D. NeMo focuses on the morphology of a language by studying its words, and how they are formed.

Answer: A

Explanation:
The NVIDIA NeMo Toolkit is a scalable, open-source framework designed to facilitate the development of state-of-the-art conversational AI models, particularly for Automatic Speech Recognition (ASR), Natural Language Processing (NLP), and Text-to-Speech (TTS). As highlighted in NVIDIA's Generative AI and LLMs course, NeMo provides modular, pre-built components and pre-trained models that researchers and developers can customize and fine-tune for tasks like speech recognition and natural language understanding.
It supports multi-GPU and multi-node training, leveraging PyTorch for efficient model development. Option A is incorrect, as NeMo does not focus on language morphology but on building AI models. Option B is wrong, as NeMo's primary goal is not model size trade-offs but comprehensive conversational AI development. Option D is inaccurate, as NeMo primarily targets speech and language tasks, not computer vision. The course notes: "NVIDIA NeMo is a toolkit for building conversational AI models, including Automatic Speech Recognition (ASR), Natural Language Processing (NLP), and Text-to-Speech (TTS) models, enabling researchers to create and deploy advanced AI solutions." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 54
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 by looking at the previous and future input tokens.
- D. The probability of the next token in a text given the previous tokens.

Answer: D

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 # 55

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