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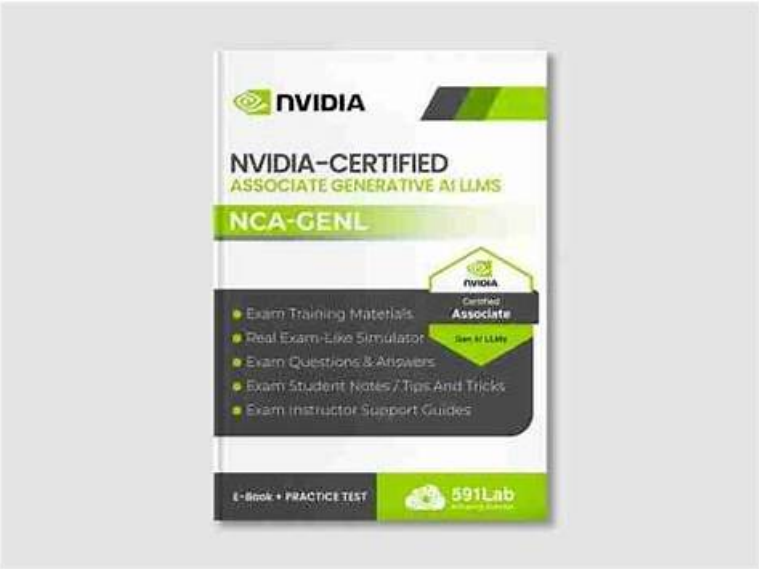

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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Fundamentals of Machine Learning and Neural Networks: 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	• 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 3	• 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.
Topic 4	• Experiment Design
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	• 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	• 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 8	• 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 9	• 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 (Q49-Q54):

NEW QUESTION # 49
Which aspect in the development of ethical AI systems ensures they align with societal values and norms?

- A. Developing AI systems with autonomy from human decision-making.
- B. Achieving the highest possible level of prediction accuracy in AI models.
- C. Ensuring AI systems have explicable decision-making processes.
- D. Implementing complex algorithms to enhance AI's problem-solving capabilities.

Answer: C

Explanation:
Ensuring explicable decision-making processes, often referred to as explainability or interpretability, is critical for aligning AI systems with societal values and norms. NVIDIA's Trustworthy AI framework emphasizes that explainable AI allows stakeholders to understand how decisions are made, fostering trust and ensuring compliance with ethical standards. This is particularly important for addressing biases and ensuring fairness. Option A (prediction accuracy) is important but does not guarantee ethical alignment. Option B (complex algorithms) may improve performance but not societal alignment. Option C (autonomy) can conflict with ethical oversight, making it less desirable.
References:
NVIDIA Trustworthy AI:https://www.nvidia.com/en-us/ai-data-science/trustworthy-ai/

NEW QUESTION # 50
Which technique is designed to train a deep learning model by adjusting the weights of the neural network based on the error between the predicted and actual outputs?

- A. Gradient Boosting
- B. K-means Clustering
- C. Backpropagation
- D. Principal Component Analysis

Answer: C

Explanation:
Backpropagation is a fundamental technique in training deep learning models, as emphasized in NVIDIA's Generative AI and LLMs course. It is designed to adjust the weights of a neural network by propagating the error between the predicted and actual outputs backward through the network. This process calculates gradients of the loss function with respect to each weight using the chain rule, enabling iterative weight updates via gradient descent to minimize the error. Backpropagation is essential for optimizing neural networks, including those used in large language models (LLMs), by fine-tuning weights to improve predictions. Option A, Gradient Boosting, is incorrect as it is an ensemble method for decision trees, not neural networks. Option B, Principal Component Analysis, is a dimensionality reduction technique, not a training method. Option C, K-means Clustering, is an unsupervised clustering algorithm, unrelated to supervised weight adjustment. The course highlights: "Backpropagation is used to train neural networks by computing gradients of the loss function and updating weights to minimize prediction errors, a critical process in deep learning models like Transformers." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 51
When implementing data parallel training, which of the following considerations needs to be taken into account?

- A. A ring all-reduce is an efficient algorithm for syncing the weights across different processes/devices.
- B. The model weights are kept independent for as long as possible increasing the model exploration.
- C. A master-worker method for syncing the weights across different processes is desirable due to its scalability.
- D. The model weights are synced across all processes/devices only at the end of every epoch.

Answer: A

Explanation:
In data parallel training, where a model is replicated across multiple devices with each processing a portion of the data, synchronizing model weights is critical. As covered in NVIDIA's Generative AI and LLMs course, the ring all-reduce algorithm is an efficient method for syncing weights across processes or devices. It minimizes communication overhead by organizing devices in a ring topology, allowing gradients to be aggregated and shared efficiently. Option A is incorrect, as weights are typically synced after each batch, not just at epoch ends, to ensure consistency. Option B is wrong, as master-worker methods can create bottlenecks and are less scalable than all-reduce. Option D is inaccurate, as keeping weights independent defeats the purpose of data parallelism, which requires synchronized updates. The course notes: "In data parallel training, the ring all-reduce algorithm efficiently synchronizes model weights across devices, reducing communication overhead and ensuring consistent updates." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 52
Which of the following contributes to the ability of RAPIDS to accelerate data processing? (Pick the 2 correct responses)

- A. Using the GPU for parallel processing of data.
- B. Subsampling datasets to provide rapid but approximate answers.
- C. Providing more memory for data analysis.
- D. Ensuring that CPUs are running at full clock speed.
- E. Enabling data processing to scale to multiple GPUs.

Answer: A,E

Explanation:
RAPIDS is an open-source suite of GPU-accelerated data science libraries developed by NVIDIA to speed up data processing and machine learning workflows. According to NVIDIA's RAPIDS documentation, its key advantages include:
* Option C: Using GPUs for parallel processing, which significantly accelerates computations for tasks like data manipulation and machine learning compared to CPU-based processing.
References:

NVIDIA RAPIDS Documentation:https://rapids.ai/

NEW QUESTION # 53
What metrics would you use to evaluate the performance of a RAG workflow in terms of the accuracy of responses generated in relation to the input query? (Choose two.)

- A. Response relevancy
- B. Context precision
- C. Tokens generated per second
- D. Retriever latency
- E. Generator latency

Answer: A,B

Explanation:
In a Retrieval-Augmented Generation (RAG) workflow, evaluating the accuracy of responses relative to the input query focuses on the quality of the retrieved context and the generated output. As covered in NVIDIA's Generative AI and LLMs course, two key metrics are response relevancy and context precision. Response relevancy measures how well the generated response aligns with the input query, often assessed through human evaluation or automated metrics like ROUGE or BLEU, ensuring the output is pertinent and accurate.
Context precision evaluates the retriever's ability to fetch relevant documents or passages from the knowledge base, typically measured by metrics like precision@k, which assesses the proportion of retrieved items that are relevant to the query. Options A (generator latency), B (retriever latency), and C (tokens generated per second) are incorrect, as they measure performance efficiency (speed) rather than accuracy. The course notes:
"In RAG workflows, response relevancy ensures the generated output matches the query intent, while context precision evaluates the accuracy of retrieved documents, critical for high-quality responses." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 54
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