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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Experiment Design
Topic 2	• 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 3	• 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 4	• 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 5	• 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 6	• 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 7	• 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 8	• 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 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 (Q38-Q43):

NEW QUESTION # 38
What is the purpose of the NVIDIA NGC catalog?

- A. To provide a platform for developers to collaborate and share software development projects.
- B. To provide a marketplace for buying and selling software development tools and resources.
- C. To provide a platform for testing and debugging software applications.
- D. To provide a curated collection of GPU-optimized AI and data science software.

Answer: D

Explanation:
The NVIDIA NGC catalog is a curated repository of GPU-optimized software for AI, machine learning, and data science, as highlighted in NVIDIA's Generative AI and LLMs course. It provides developers with pre- built containers, pre-trained models, and tools optimized for NVIDIA GPUs, enabling faster development and deployment of AI solutions, including LLMs. These resources are designed to streamline workflows and ensure compatibility with NVIDIA hardware. Option A is incorrect, as NGC is not primarily for testing or debugging but for providing optimized software. Option B is wrong, as it is not a collaboration platform like GitHub. Option C is inaccurate, as NGC is not a marketplace for buying and selling but a free resource hub.
The course notes: "The NVIDIA NGC catalog offers a curated collection of GPU-optimized AI and data science software, including containers and models, to accelerate development and deployment." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 39
Which tool would you use to select training data with specific keywords?

- A. Regular expression filter

- B. JSON parser
- C. Tableau dashboard
- D. ActionScript

Answer: A

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 # 40
What is the primary purpose of applying various image transformation techniques (e.g., flipping, rotation, zooming) to a dataset?

- A. To reduce the computational resources required for training deep learning models.
- B. To simplify the model's architecture, making it easier to interpret the results.
- C. To ensure perfect alignment and uniformity across all images in the dataset.
- D. To artificially expand the dataset's size and improve the model's ability to generalize.

Answer: D

Explanation:
Image transformation techniques such as flipping, rotation, and zooming are forms of data augmentation used to artificially increase the size and diversity of a dataset. NVIDIA's Deep Learning AI documentation, particularly for computer vision tasks using frameworks like DALI (Data Loading Library), explains that data augmentation improves a model's ability to generalize by exposing it to varied versions of the training data, thus reducing overfitting. For example, flipping an image horizontally creates a new training sample that helps the model learn invariance to certain transformations. Option A is incorrect because transformations do not simplify the model architecture. Option C is wrong, as augmentation introduces variability, not uniformity. Option D is also incorrect, as augmentation typically increases computational requirements due to additional data processing.
References:
NVIDIA DALI Documentation: https://docs.nvidia.com/deeplearning/dali/user-guide/docs/index.html

NEW QUESTION # 41
Which metric is primarily used to evaluate the quality of the text generated by language models?

- A. Recall
- B. Perplexity
- C. Precision
- D. Accuracy

Answer: B

Explanation:
Perplexity is the primary metric used to evaluate the quality of text generated by language models, as emphasized in NVIDIA's Generative AI and LLMs course. Perplexity measures how well a language model predicts a sequence of tokens, with lower values indicating better performance, as the model is less
"surprised" by the data. It is calculated as the exponentiated average negative log-likelihood of the tokens in a test set, reflecting the model's ability to assign high probabilities to correct sequences. In generative tasks, perplexity is widely used because it directly assesses the model's fluency and coherence. Option B, Precision, and Option C, Recall, are metrics for classification tasks, not text generation. Option D, Accuracy, is also irrelevant for evaluating generative quality, as it applies to categorical predictions. The course notes:
"Perplexity is a key metric for evaluating language models, measuring how well the model predicts text sequences, with lower perplexity indicating higher-quality generation." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 42
What is the fundamental role of LangChain in an LLM workflow?

- A. To directly manage the hardware resources used by LLMs.
- B. To orchestrate LLM components into complex workflows.
- C. To reduce the size of AI foundation models.
- D. To act as a replacement for traditional programming languages.

Answer: B

Explanation:
LangChain is a framework designed to simplify the development of applications powered by large language models (LLMs) by orchestrating various components, such as LLMs, external data sources, memory, and tools, into cohesive workflows. According to NVIDIA's documentation on generative AI workflows, particularly in the context of integrating LLMs with external systems, LangChain enables developers to build complex applications by chaining together prompts, retrieval systems (e.g., for RAG), and memory modules to maintain context across interactions. For example, LangChain can integrate an LLM with a vector database for retrieval-augmented generation or manage conversational history for chatbots. Option A is incorrect, as LangChain complements, not replaces, programming languages. Option B is wrong, as LangChain does not modify model size. Option D is inaccurate, as hardware management is handled by platforms like NVIDIA Triton, not LangChain.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html LangChain Official Documentation: https://python.langchain.com/docs/get_started/introduction

NEW QUESTION # 43

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