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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 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	• 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	• 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 7	• 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 8	• Experiment Design
Topic 9	• 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 10	• 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.

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NVIDIA Generative AI LLMs Sample Questions (Q52-Q57):

NEW QUESTION # 52
Which technology will allow you to deploy an LLM for production application?

- A. Git
- B. Triton
- C. Pandas
- D. Falcon

Answer: B

Explanation:
NVIDIA Triton Inference Server is a technology specifically designed for deploying machine learning models, including large language models (LLMs), in production environments. It supports high-performance inference, model management, and scalability across GPUs, making it ideal for real-time LLM applications.
According to NVIDIA's Triton Inference Server documentation, it supports frameworks like PyTorch and TensorFlow, enabling efficient deployment of LLMs with features like dynamic batching and model ensemble. Option A (Git) is a version control system, not a deployment tool. Option B (Pandas) is a data analysis library, irrelevant to model deployment. Option C (Falcon) refers to a specific LLM, not a deployment platform.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server /user-guide/docs/index.html

NEW QUESTION # 53
How does A/B testing contribute to the optimization of deep learning models' performance and effectiveness in real-world applications? (Pick the 2 correct responses)

- A. A/B testing helps validate the impact of changes or updates to deep learning models bystatistically analyzing the outcomes of different versions to make informed decisions for model optimization.
- B. A/B testing allows for the comparison of different model configurations or hyperparameters to identify the most effective setup for improved performance.
- C. A/B testing in deep learning models is primarily used for selecting the best training dataset without requiring a model architecture or parameters.
- D. A/B testing guarantees immediate performance improvements in deep learning models without the need for further analysis or experimentation.
- E. A/B testing is irrelevant in deep learning as it only applies to traditional statistical analysis and not complex neural network models.

Answer: A,B

Explanation:
A/B testing is a controlled experimentation technique used to compare two versions of a system to determine which performs better. In the context of deep learning, NVIDIA's documentation on model optimization and deployment (e.g., Triton Inference Server) highlights its use in evaluating model performance:
* Option A: A/B testing validates changes (e.g., model updates or new features) by statistically comparing outcomes (e.g., accuracy or user engagement), enabling data-driven optimization decisions.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server/user-guide/docs/index.html

NEW QUESTION # 54
In Natural Language Processing, there are a group of steps in problem formulation collectively known as word representations (also word embeddings). Which of the following are Deep Learning models that can be used to produce these representations for NLP tasks? (Choose two.)

- A. Word2vec
- B. TensorRT
- C. Kubernetes
- D. WordNet
- E. BERT

Answer: A,E

Explanation:
Word representations, or word embeddings, are critical in NLP for capturing semantic relationships between words, as emphasized in NVIDIA's Generative AI and LLMs course. Word2vec and BERT are deep learning models designed to produce these embeddings. Word2vec uses shallow neural networks (CBOW or Skip- Gram) to generate dense vector representations based on word co-occurrence in a corpus, capturing semantic similarities. BERT, a Transformer-based model, produces contextual embeddings by considering bidirectional context, making it highly effective for complex NLP tasks. Option B, WordNet, is incorrect, as it is a lexical database, not a deep learning model. Option C, Kubernetes, is a container orchestration platform, unrelated to NLP or embeddings. Option D, TensorRT, is an inference optimization library, not a model for embeddings.
The course notes: "Deep learning models like Word2vec and BERT are used to generate word embeddings, enabling semantic understanding in NLP tasks, with BERT leveraging Transformer architectures for contextual representations." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 55
How does A/B testing contribute to the optimization of deep learning models' performance and effectiveness in real-world applications? (Pick the 2 correct responses)

- A. A/B testing allows for the comparison of different model configurations or hyperparameters to identify the most effective setup for improved performance.
- B. A/B testing in deep learning models is primarily used for selecting the best training dataset without requiring a model architecture or parameters.
- C. A/B testing helps validate the impact of changes or updates to deep learning models by statistically analyzing the outcomes

of different versions to make informed decisions for model optimization.

- D. A/B testing guarantees immediate performance improvements in deep learning models without the need for further analysis or experimentation.
- E. A/B testing is irrelevant in deep learning as it only applies to traditional statistical analysis and not complex neural network models.

Answer: A,C

Explanation:
A/B testing is a controlled experimentation technique used to compare two versions of a system to determine which performs better. In the context of deep learning, NVIDIA's documentation on model optimization and deployment (e.g., Triton Inference Server) highlights its use in evaluating model performance:
* Option A: A/B testing validates changes (e.g., model updates or new features) by statistically comparing outcomes (e.g., accuracy or user engagement), enabling data-driven optimization decisions.
References:
NVIDIA Triton Inference Server Documentation: https://docs.nvidia.com/deeplearning/triton-inference-server /user-guide/docs/index.html

NEW QUESTION # 56
What is 'chunking' in Retrieval-Augmented Generation (RAG)?

- A. A method used in RAG to generate random text.
- B. A technique used in RAG to split text into meaningful segments.
- C. A concept in RAG that refers to the training of large language models.
- D. Rewrite blocks of text to fill a context window.

Answer: B

Explanation:
Chunking in Retrieval-Augmented Generation (RAG) refers to the process of splitting large text documents into smaller, meaningful segments (or chunks) to facilitate efficient retrieval and processing by the LLM.
According to NVIDIA's documentation on RAG workflows (e.g., in NeMo and Triton), chunking ensures that retrieved text fits within the model's context window and is relevant to the query, improving the quality of generated responses. For example, a long document might be divided into paragraphs or sentences to allow the retrieval component to select only the most pertinent chunks.
Option A is incorrect because chunking does not involve rewriting text. Option B is wrong, as chunking is not about generating random text. Option C is unrelated, as chunking is not a training process.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp /intro.html
Lewis, P., et al. (2020). "Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks."

NEW QUESTION # 57
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