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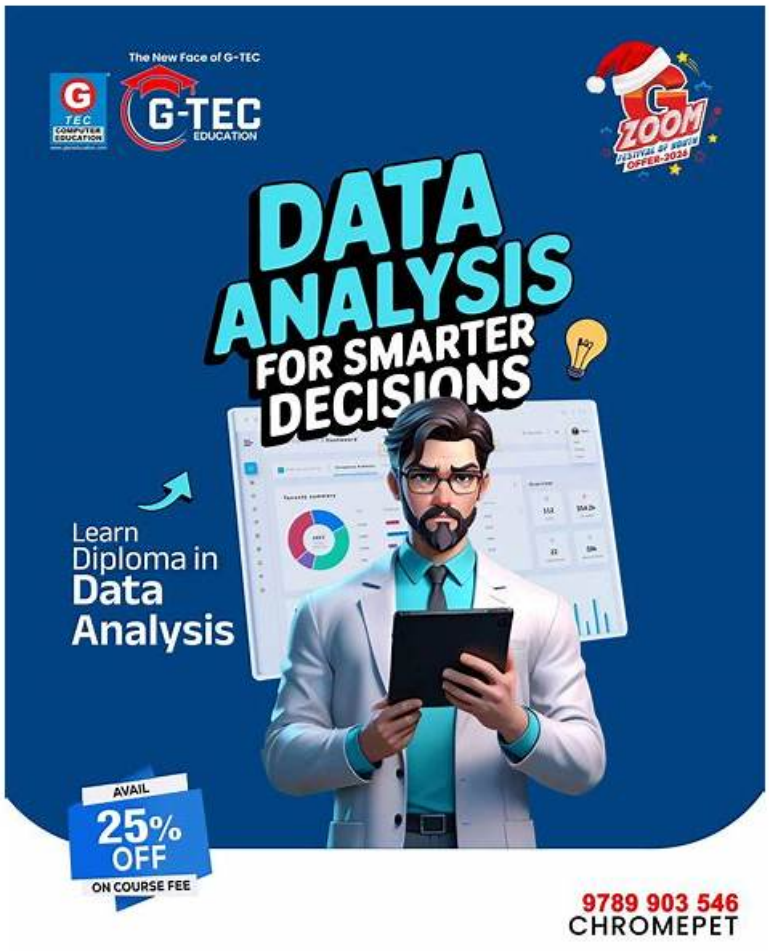

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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 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	• 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 6	• 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 7	• 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.
Topic 8	• 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 9	• 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 10	• Experiment Design

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NVIDIA Generative AI LLMs Sample Questions (Q83-Q88):

NEW QUESTION # 83
When using NVIDIA RAPIDS to accelerate data preprocessing for an LLM fine-tuning pipeline, which specific feature of RAPIDS cuDF enables faster data manipulation compared to traditional CPU-based Pandas?

- A. GPU-accelerated columnar data processing with zero-copy memory access.
- B. Integration with cloud-based storage for distributed data access.
- C. Automatic parallelization of Python code across CPU cores.
- D. Conversion of Pandas DataFrames to SQL tables for faster querying.

Answer: A

Explanation:
NVIDIA RAPIDS cuDF is a GPU-accelerated library that mimics Pandas' API but performs data manipulation on GPUs,

significantly speeding up preprocessing tasks for LLM fine-tuning. The key feature enabling this performance is GPU-accelerated columnar data processing with zero-copy memory access, which allows cuDF to leverage the parallel processing power of GPUs and avoid unnecessary data transfers between CPU and GPU memory. According to NVIDIA's RAPIDS documentation, cuDF's columnar format and CUDA-based operations enable orders-of-magnitude faster data operations (e.g., filtering, grouping) compared to CPU-based Pandas. Option A is incorrect, as cuDF uses GPUs, not CPUs. Option C is false, as cloud integration is not a core cuDF feature. Option D is wrong, as cuDF does not rely on SQL tables.
References:
NVIDIA RAPIDS Documentation: https://rapids.ai/

NEW QUESTION # 84
What is confidential computing?

- A. A method for interpreting and integrating various forms of data in AI systems.
- B. A process for designing and applying AI systems in a manner that is explainable, fair, and verifiable.
- C. A technique for aligning the output of the AI models with human beliefs.
- D. A technique for securing computer hardware and software from potential threats.

Answer: D

Explanation:
Confidential computing is a technique for securing computer hardware and software from potential threats by protecting data in use, as covered in NVIDIA's Generative AI and LLMs course. It ensures that sensitive data, such as model weights or user inputs, remains encrypted during processing, using technologies like secure enclaves or trusted execution environments (e.g., NVIDIA H100 GPUs with confidential computing capabilities). This enhances the security of AI systems. Option B is incorrect, as it describes Trustworthy AI principles, not confidential computing. Option C is wrong, as aligning outputs with human beliefs is unrelated to security. Option D is inaccurate, as data integration is not the focus of confidential computing. The course notes: "Confidential computing secures AI systems by protecting data in use, leveraging trusted execution environments to safeguard sensitive information during processing." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 85
What is the purpose of few-shot learning in prompt engineering?

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

Answer: A

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 # 86
Which technology will allow you to deploy an LLM for production application?

- A. Triton
- B. Falcon

- C. Pandas
- D. Git

Answer: A

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 # 87
What is a foundation model in the context of Large Language Models (LLMs)?

- A. Any model validated by the artificial intelligence safety institute as the foundation for building transformer-based applications.
- B. A model that sets the state-of-the-art results for any of the tasks that compose the General Language Understanding Evaluation (GLUE) benchmark.
- C. Any model trained on vast quantities of data at scale whose goal is to serve as a starter that can be adapted to a variety of downstream tasks.
- D. Any model based on the foundation paper "Attention is all you need," that uses recurrent neural networks and convolution layers.

Answer: C

Explanation:
In the context of Large Language Models (LLMs), a foundation model refers to a large-scale model trained on vast quantities of diverse data, designed to serve as a versatile starting point that can be fine-tuned or adapted for a variety of downstream tasks, such as text generation, classification, or translation. As covered in NVIDIA's Generative AI and LLMs course, foundation models like BERT, GPT, or T5 are pre-trained on massive datasets and can be customized for specific applications, making them highly flexible and efficient.
Option A is incorrect, as achieving state-of-the-art results on GLUE is not a defining characteristic of foundation models, though some may perform well on such benchmarks. Option C is wrong, as there is no specific validation by an AI safety institute required to define a foundation model. Option D is inaccurate, as the "Attention is All You Need" paper introduced Transformers, which rely on attention mechanisms, not recurrent neural networks or convolution layers. The course states: "Foundation models are large-scale models trained on broad datasets, serving as a base for adaptation to various downstream tasks in NLP." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 88
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