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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• Alignment: Addresses methods for ensuring LLM behavior is safe, accurate, and consistent with human intentions and values.
Topic 2	• Data analysis and visualization: Covers interpreting datasets and presenting insights through visual tools to support informed model development decisions.
Topic 3	• Fundamentals of machine learning and neural networks: Covers the core concepts of how machine learning models learn from data, including the structure and function of neural networks that underpin large language models.
Topic 4	• LLM integration and deployment: Addresses connecting LLMs into real-world applications and deploying them reliably across production environments.
Topic 5	• Experimentation: Explores running and evaluating trials to test model behavior, compare approaches, and validate generative AI solutions.

Topic 6	• Data preprocessing and feature engineering: Covers preparing raw data through cleaning, transformation, and feature selection to make it suitable for model training.
Topic 7	• Experiment design: Focuses on structuring controlled tests and workflows to systematically evaluate LLM performance and outcomes.
Topic 8	• Python libraries for LLMs: Covers key Python frameworks and tools — such as LangChain, Hugging Face, and similar libraries — used to build and interact with LLMs.
Topic 9	• Software development: Covers the programming practices and coding skills required to build, maintain, and deploy generative AI applications.

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NVIDIA Generative AI LLMs Sample Questions (Q64-Q69):

NEW QUESTION # 64
Which feature of the HuggingFace Transformers library makes it particularly suitable for fine-tuning large language models on NVIDIA GPUs?

- A. Seamless integration with PyTorch and TensorRT for GPU-accelerated training and inference.
- B. Automatic conversion of models to ONNX format for cross-platform deployment.
- C. Simplified API for classical machine learning algorithms like SVM.
- D. Built-in support for CPU-based data preprocessing pipelines.

Answer: A

Explanation:
The HuggingFace Transformers library is widely used for fine-tuning large language models (LLMs) due to its seamless integration with PyTorch and NVIDIA's TensorRT, enabling GPU-accelerated training and inference. NVIDIA's NeMo documentation references HuggingFace Transformers for its compatibility with CUDA and TensorRT, which optimize model performance on NVIDIA GPUs through features like mixed- precision training and dynamic shape inference. This makes it ideal for scaling LLM fine-tuning on GPU clusters. Option A is incorrect, as Transformers focuses on GPU, not CPU, pipelines. Option C is partially true but not the primary feature for fine-tuning. Option D is false, as Transformers is for deep learning, not classical algorithms.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html
HuggingFace Transformers Documentation: https://huggingface.co/docs/transformers/index

NEW QUESTION # 65
Which of the following prompt engineering techniques is most effective for improving an LLM's performance on multi-step reasoning tasks?

- A. Zero-shot prompting with detailed task descriptions.
- B. Retrieval-augmented generation without context
- C. Few-shot prompting with unrelated examples.
- D. Chain-of-thought prompting with explicit intermediate steps.

Answer: D

Explanation:
Chain-of-thought (CoT) prompting is a highly effective technique for improving large language model (LLM) performance on multi-step reasoning tasks. By including explicit intermediate steps in the prompt, CoT guides the model to break down complex problems into manageable parts, improving reasoning accuracy. NVIDIA's NeMo documentation on prompt engineering highlights CoT as a powerful method for tasks like mathematical reasoning or logical problem-solving, as it leverages the model's ability to follow structured reasoning paths. Option A is incorrect, as retrieval-augmented generation (RAG) without context is less effective for reasoning tasks. Option B is wrong, as unrelated examples in few-shot prompting do not aid reasoning. Option C (zero-shot prompting) is less effective than CoT for complex reasoning.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html Wei, J., et al. (2022). "Chain-of-Thought Prompting Elicits Reasoning in Large Language Models."

NEW QUESTION # 66
Which of the following tasks is a primary application of XGBoost and cuML?

- A. Training deep learning models
- B. Performing GPU-accelerated machine learning tasks
- C. Data visualization and analysis
- D. Inspecting, cleansing, and transforming data

Answer: B

Explanation:
Both XGBoost (with its GPU-enabled training) and cuML offer GPU-accelerated implementations of machine learning algorithms, such as gradient boosting, clustering, and dimensionality reduction, enabling much faster model training and inference.

NEW QUESTION # 67
Which Python library is specifically designed for working with large language models (LLMs)?

- A. Pandas
- B. NumPy
- C. Scikit-learn
- D. HuggingFace Transformers

Answer: D

Explanation:
The HuggingFace Transformers library is specifically designed for working with large language models (LLMs), providing tools for model training, fine-tuning, and inference with transformer-based architectures (e.
g., BERT, GPT, T5). NVIDIA's NeMo documentation often references HuggingFace Transformers for NLP tasks, as it supports integration with NVIDIA GPUs and frameworks like PyTorch for optimized performance.
Option A (NumPy) is for numerical computations, not LLMs. Option B (Pandas) is for data manipulation, not model-specific tasks. Option D (Scikit-learn) is for traditional machine learning, not transformer-based LLMs.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp
/intro.html
HuggingFace Transformers Documentation: https://huggingface.co/docs/transformers/index

NEW QUESTION # 68
In the context of fine-tuning LLMs, which of the following metrics is most commonly used to assess the performance of a fine-tuned model?

- A. Accuracy on a validation set
- B. Model size
- C. Number of layers
- D. Training duration

Answer: A

Explanation:
When fine-tuning large language models (LLMs), the primary goal is to improve the model's performance on a specific task. The most common metric for assessing this performance is accuracy on a validation set, as it directly measures how well the model generalizes to unseen data. NVIDIA's NeMo framework documentation for fine-tuning LLMs emphasizes the use of validation metrics such as accuracy, F1 score, or task-specific metrics (e.g., BLEU for translation) to evaluate model performance during and after fine-tuning.
These metrics provide a quantitative measure of the model's effectiveness on the target task. Options A, C, and D (model size, training duration, and number of layers) are not performance metrics; they are either architectural characteristics or training parameters that do not directly reflect the model's effectiveness.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/model_finetuning.html

NEW QUESTION # 69
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