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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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	• 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 5	• Experiment Design
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	• 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 8	• 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 9	• 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.

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NVIDIA Generative AI LLMs Sample Questions (Q81-Q86):

NEW QUESTION # 81
Which Python library is specifically designed for working with large language models (LLMs)?

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

Answer: C

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 # 82
Imagine you are training an LLM consisting of billions of parameters and your training dataset is significantly larger than the available RAM in your system. Which of the following would be an alternative?

- A. Discarding the excess of data and pruning the dataset to the capacity of the RAM, resulting in reduced latency during inference.
- B. Eliminating sentences that are syntactically different by semantically equivalent, possibly reducing the risk of the model hallucinating as it is trained to get to the point.
- C. Using a memory-mapped file that allows the library to access and operate on elements of the dataset without needing to fully load it into memory.
- D. Using the GPU memory to extend the RAM capacity for storing the dataset and move the dataset in and out of the GPU, using the PCI bandwidth possibly.

Answer: C

Explanation:
When training an LLM with a dataset larger than available RAM, using a memory-mapped file is an effective alternative, as discussed in NVIDIA's Generative AI and LLMs course. Memory-mapped files allow the system to access portions of the dataset directly from disk without loading the entire dataset into RAM, enabling efficient handling of large datasets. This approach leverages virtual memory to map file contents to memory, reducing memory bottlenecks. Option A is incorrect, as moving large datasets in and out of GPU memory via PCI bandwidth is inefficient and not a standard practice for dataset storage. Option C is wrong, as discarding data reduces model quality and is not a scalable solution. Option D is inaccurate, as eliminating semantically equivalent sentences is a specific preprocessing step that does not address memory constraints.
The course states: "Memory-mapped files enable efficient training of LLMs on large datasets by accessing data from disk without loading it fully into RAM, overcoming memory limitations." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 83
What are the main advantages of instructed large language models over traditional, small language models (< 300M parameters)? (Pick the 2 correct responses)

- A. Single generic model can do more than one task.
- B. Smaller latency, higher throughput.
- C. Cheaper computational costs during inference.
- D. It is easier to explain the predictions.
- E. Trained without the need for labeled data.

Answer: A,C

Explanation:
Instructed large language models (LLMs), such as those supported by NVIDIA's NeMo framework, have significant advantages over smaller, traditional models:
* Option D: LLMs often have cheaper computational costs during inference for certain tasks because they can generalize across multiple tasks without requiring task-specific retraining, unlike smaller models that may need separate models per task.
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 # 84
Which of the following best describes Word2vec?

- A. A database management system designed for storing and querying word data.
- B. A programming language used to build artificial intelligence models.
- C. A deep learning algorithm used to generate word embeddings from text data.
- D. A statistical technique used to analyze word frequency in a text corpus.

Answer: C

Explanation:
Word2Vec is a groundbreaking deep learning algorithm developed to create dense vector representations, or embeddings, of words based on their contextual usage in large text corpora. Unlike traditional methods like bag-of-words or TF-IDF, which rely on frequency counts and often result in sparse vectors, Word2Vec employs neural networks to learn continuous vector spaces where semantically similar words are positioned closer together. This enables machines to capture nuances such as synonyms, analogies, and relationships (e.
g., "king" - "man" + "woman" # "queen"). The algorithm operates through two primary architectures:
Continuous Bag-of-Words (CBOW), which predicts a target word from its surrounding context, and Skip- Gram, which does the reverse by predicting context words from a target word. Skip-Gram is particularly effective for rare words and larger datasets, while CBOW is faster and better for frequent words. In the context of NVIDIA's Generative AI and LLMs course, Word2Vec is highlighted as a foundational step in the evolution of text embeddings in natural language processing (NLP) tasks, paving the way for more advanced models like RNN-based embeddings and Transformers. This is essential for understanding how LLMs build upon these embeddings for tasks such as semantic analysis and language generation. Exact extract from the course description:
"Understand how text embeddings have rapidly evolved in NLP tasks such as Word2Vec, recurrent neural network (RNN)-based

embeddings, and Transformers." This positions Word2Vec as a key deep learning technique for generating meaningful word vectors from text data, distinguishing it from mere statistical frequency analysis or unrelated tools like programming languages or databases

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

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

Answer: D

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
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