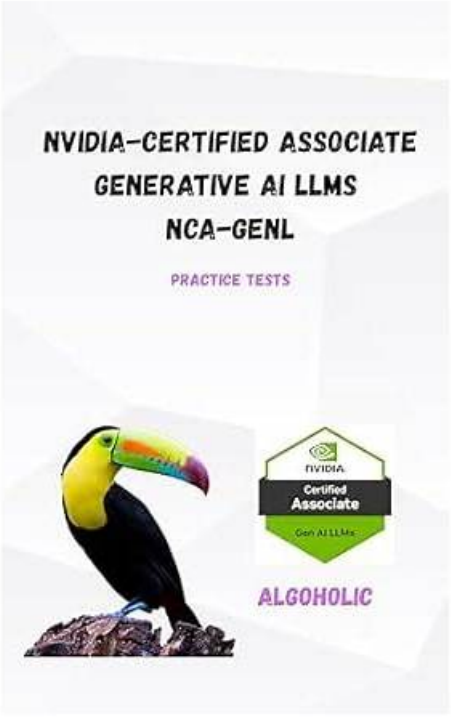
NCA-GENL Pass-Sure Braindumps: NVIDIA Generative AI LLMs & NCA-GENL Exam Guide



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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	• Experiment Design
Topic 3	• 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 4	• 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 5	• 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 6	• 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 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.

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NVIDIA Generative AI LLMs Sample Questions (Q24-Q29):

NEW QUESTION # 24
What metrics would you use to evaluate the performance of a RAG workflow in terms of the accuracy of responses generated in relation to the input query? (Choose two.)

- A. Response relevancy
- B. Context precision
- C. Generator latency
- D. Tokens generated per second
- E. Retriever latency

Answer: A,B

Explanation:
In a Retrieval-Augmented Generation (RAG) workflow, evaluating the accuracy of responses relative to the input query focuses on the quality of the retrieved context and the generated output. As covered in NVIDIA's Generative AI and LLMs course, two key metrics are response relevancy and context precision. Response relevancy measures how well the generated response aligns with the

input query, often assessed through human evaluation or automated metrics like ROUGE or BLEU, ensuring the output is pertinent and accurate.
Context precision evaluates the retriever's ability to fetch relevant documents or passages from the knowledge base, typically measured by metrics like precision@k, which assesses the proportion of retrieved items that are relevant to the query. Options A (generator latency), B (retriever latency), and C (tokens generated per second) are incorrect, as they measure performance efficiency (speed) rather than accuracy. The course notes:
"In RAG workflows, response relevancy ensures the generated output matches the query intent, while context precision evaluates the accuracy of retrieved documents, critical for high-quality responses." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 25
Which Python library is specifically designed for working with large language models (LLMs)?

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

Answer: D

Explanation:
The HuggingFace Transformers library is specifically designed for working with large languagemodels (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 # 26
What are the main advantages of instructed large language models over traditional, small language models (<
300M parameters)? (Pick the 2 correct responses)

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

Answer: B,D

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 # 27
Which calculation is most commonly used to measure the semantic closeness of two text passages?

- A. Cosine similarity

- B. Hamming distance
- C. Jaccard similarity
- D. Euclidean distance

Answer: A

Explanation:
Cosine similarity is the most commonly used metric to measure the semantic closeness of two text passages in NLP. It calculates the cosine of the angle between two vectors (e.g., word embeddings or sentence embeddings) in a high-dimensional space, focusing on the direction rather than magnitude, which makes it robust for comparing semantic similarity. NVIDIA's documentation on NLP tasks, particularly in NeMo and embedding models, highlights cosine similarity as the standard metric for tasks like semantic search or text similarity, often using embeddings from models like BERT or Sentence-BERT. Option A (Hamming distance) is for binary data, not text embeddings. Option B (Jaccard similarity) is for set-based comparisons, not semantic content. Option D (Euclidean distance) is less common for text due to its sensitivity to vector magnitude.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html

NEW QUESTION # 28
Which technology will allow you to deploy an LLM for production application?

- A. Pandas
- B. Triton
- C. Git
- 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 # 29
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