

# Highly Rated NVIDIA NVIDIA Generative AI LLMs NCA-GENL PDF Dumps



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## NVIDIA NCA-GENL Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                              |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>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.</li></ul>                                                 |
| Topic 2 | <ul style="list-style-type: none"><li>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.</li></ul> |
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|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 3 | <ul style="list-style-type: none"> <li>• <b>Fundamentals of Machine Learning and Neural Networks:</b> 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.</li> </ul> |
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>LLM Integration and Deployment:</b> 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.</li> </ul>                                                                                        |
| Topic 5 | <ul style="list-style-type: none"> <li>• <b>Alignment:</b> 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.</li> </ul>                                                                                                                           |
| Topic 6 | <ul style="list-style-type: none"> <li>• <b>Data Preprocessing and Feature Engineering:</b> 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.</li> </ul>                                                                                                    |
| Topic 7 | <ul style="list-style-type: none"> <li>• <b>Python Libraries for LLMs:</b> 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.</li> </ul>                                                                                                           |
| Topic 8 | <ul style="list-style-type: none"> <li>• <b>Software Development:</b> 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.</li> </ul>                                                                                                        |

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

### NEW QUESTION # 83

In the transformer architecture, what is the purpose of positional encoding?

- A. To encode the importance of each token in the input sequence.
- **B. To add information about the order of each token in the input sequence.**
- C. To remove redundant information from the input sequence.
- D. To encode the semantic meaning of each token in the input sequence.

**Answer: B**

Explanation:

Positional encoding is a vital component of the Transformer architecture, as emphasized in NVIDIA's Generative AI and LLMs course. Transformers lack the inherent sequential processing of recurrent neural networks, so they rely on positional encoding to incorporate information about the order of tokens in the input sequence. This is typically achieved by adding fixed or learned vectors (e.g., sine and cosine functions) to the token embeddings, where each position in the sequence has a unique encoding. This allows the model to distinguish the relative or absolute positions of tokens, enabling it to understand word order in tasks like translation or text generation. For example, in the sentence "The cat sleeps," positional encoding ensures the model knows "cat" is the second token and "sleeps" is the third. Option A is incorrect, as positional encoding does not remove information but adds positional context. Option B is wrong because semantic meaning is captured by token embeddings, not positional encoding. Option D is also inaccurate, as the importance of tokens is determined by the attention mechanism, not positional encoding. The course notes: "Positional encodings are used in Transformers to provide information about the order of tokens in the input sequence, enabling the model to process sequences effectively." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

### NEW QUESTION # 84

"Hallucinations" is a term coined to describe when LLM models produce what?

- A. Outputs are only similar to the input data.
- B. Images from a prompt description.

- C. Grammatically incorrect or broken outputs.
- **D. Correct sounding results that are wrong.**

**Answer: D**

Explanation:

In the context of LLMs, "hallucinations" refer to outputs that sound plausible and correct but are factually incorrect or fabricated, as emphasized in NVIDIA's Generative AI and LLMs course. This occurs when models generate responses based on patterns in training data without grounding in factual knowledge, leading to misleading or invented information. Option A is incorrect, as hallucinations are not about similarity to input data but about factual inaccuracies. Option B is wrong, as hallucinations typically refer to text, not image generation. Option D is inaccurate, as hallucinations are grammatically coherent but factually wrong. The course states: "Hallucinations in LLMs occur when models produce correct-sounding but factually incorrect outputs, posing challenges for ensuring trustworthy AI." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

### NEW QUESTION # 85

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

- A. Few-shot prompting with unrelated examples.
- B. Retrieval-augmented generation without context
- C. Zero-shot prompting with detailed task descriptions.
- **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 # 86

In large-language models, what is the purpose of the attention mechanism?

- A. To measure the importance of the words in the output sequence.
- B. To determine the order in which words are generated.
- **C. To assign weights to each word in the input sequence.**
- D. To capture the order of the words in the input sequence.

**Answer: C**

Explanation:

The attention mechanism is a critical component of large language models, particularly in Transformer architectures, as covered in NVIDIA's Generative AI and LLMs course. Its primary purpose is to assign weights to each token in the input sequence based on its relevance to other tokens, allowing the model to focus on the most contextually important parts of the input when generating or interpreting text. This is achieved through mechanisms like self-attention, where each token computes a weighted sum of all other tokens' representations, with weights determined by their relevance (e.g., via scaled dot-product attention).

This enables the model to capture long-range dependencies and contextual relationships effectively, unlike traditional recurrent networks. Option A is incorrect because attention focuses on the input sequence, not the output sequence. Option B is wrong as the order of generation is determined by the model's autoregressive or decoding strategy, not the attention mechanism itself. Option C is also inaccurate, as capturing the order of words is the role of positional encoding, not attention. The course highlights: "The attention mechanism enables models to weigh the importance of different tokens in the input sequence, improving performance in tasks like

translation and text generation." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language

### NEW QUESTION # 87

What are some methods to overcome limited throughput between CPU and GPU? (Pick the 2 correct responses)

- A. Using techniques like memory pooling.
- B. Upgrade the GPU to a higher-end model.
- C. Increase the number of CPU cores.
- D. Increase the clock speed of the CPU.

**Answer: A,B**

Explanation:

Limited throughput between CPU and GPU often results from data transfer bottlenecks or inefficient resource utilization. NVIDIA's documentation on optimizing deep learning workflows (e.g., using CUDA and cuDNN) suggests the following:

\* Option B: Memory pooling techniques, such as pinned memory or unified memory, reduce data transfer overhead by optimizing how data is staged between CPU and GPU.

References:

NVIDIA CUDA Documentation: <https://docs.nvidia.com/cuda/cuda-c-programming-guide/index.html> NVIDIA GPU Product Documentation: <https://www.nvidia.com/en-us/data-center/products/>

### NEW QUESTION # 88

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