

NCA-GENL考試內容 - NCA-GENL認證考試

Video 2: About NCA-GENL Certification Key Features



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古人曾說：故天將大任於斯人也，必先苦其心志，勞其筋骨，餓其體膚，空乏其身。到現在也不過如此，成功其實是有方式方法的，只要你選擇得當。PDFExamDumps NVIDIA的NCA-GENL考試培訓資料是專門為IT人士量身定做的培訓資料，是為幫助他們順利通過考試的。如果你還在惡補你的專業知識為考試做準備，那麼你就選錯了方式方法，這樣不僅費時費力，而且很有可能失敗，不過補救還來得及，趕緊去購買PDFExamDumps NVIDIA的NCA-GENL考試培訓資料，有了它，你將得到不一樣的人生，記住，命運是掌握在自己手中的。

PDFExamDumps是一個專門為一些IT認證考試提供針對性練習題及當前考試題目的培訓網站。我們針對熱門的NVIDIA NCA-GENL 認證考試研究出來了最新的培訓方案，相信又可以滿足很多人的需求。NVIDIA NCA-GENL 認證證書是很多知名IT企業錄用人的依據之一，所以這個認證考試現在很熱門。同時PDFExamDumps也被很多人認可了，也很受一大部分人的信賴，也幫助了很多人都成就了小小的夢想。如果你選擇PDFExamDumps卻沒有成功通過考試，PDFExamDumps會全額退款給你。

>> NCA-GENL考試內容 <<

最新的NCA-GENL學習資料

從專門的考試角度來看，有必要教你關於考試的技巧，你需要智取，不要給你的未來失敗的機會，PDFExamDumps培訓資源是個很了不起的資源網站，包括了NVIDIA的NCA-GENL考試材料，研究材料，技術材料。認證培訓和詳細的解釋和答案。考古題網站在近幾年激增，這可能是導致你準備NVIDIA的NCA-GENL考試認證毫無頭緒。PDFExamDumps NVIDIA的NCA-GENL考試培訓資料是一些專業人士和通過了的考生用實踐證明了的有效的培訓資料，它可以幫助你通過考試認證。

最新的 NVIDIA-Certified Associate NCA-GENL 免費考試真題 (Q24-Q29):

問題 #24

What is the correct order of steps in an ML project?

- A. Data preprocessing, Data collection, Model training, Model evaluation
- B. Model evaluation, Data collection, Data preprocessing, Model training
- **C. Data collection, Data preprocessing, Model training, Model evaluation**
- D. Model evaluation, Data preprocessing, Model training, Data collection

答案：C

解題說明：

The correct order of steps in a machine learning (ML) project, as outlined in NVIDIA's Generative AI and LLMs course, is: Data collection, Data preprocessing, Model training, and Model evaluation. Data collection involves gathering relevant data for the task. Data preprocessing prepares the data by cleaning, transforming, and formatting it (e.g., tokenization for NLP). Model training involves using the preprocessed data to optimize the model's parameters. Model evaluation assesses the trained model's

performance using metrics like accuracy or F1-score. This sequence ensures a systematic approach to building effective ML models. Options A, B, and C are incorrect, as they disrupt this logical flow (e.g., evaluating before training or preprocessing before collecting data is not feasible). The course states: "An ML project follows a structured pipeline: data collection, data preprocessing, model training, and model evaluation, ensuring data is properly prepared and models are rigorously assessed." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing

問題 #25

You are using RAPIDS and Python for a data analysis project. Which pair of statements best explains how RAPIDS accelerates data science?

- A. RAPIDS enables on-GPU processing of computationally expensive calculations and minimizes CPU- GPU memory transfers.
- B. RAPIDS is a Python library that provides functions to accelerate the PCIe bus throughput via word- doubling.
- C. RAPIDS provides lossless compression of CPU-GPU memory transfers to speed up data analysis.

答案： A

解題說明：

RAPIDS is a suite of open-source libraries designed to accelerate data science workflows by leveraging GPU processing, as emphasized in NVIDIA's Generative AI and LLMs course. It enables on-GPU processing of computationally expensive calculations, such as data preprocessing and machine learning tasks, using libraries like cuDF and cuML. Additionally, RAPIDS minimizes CPU-GPU memory transfers by performing operations directly on the GPU, reducing latency and improving performance. Options A and B are identical and correct, reflecting RAPIDS' core functionality. Option C is incorrect, as RAPIDS does not focus on PCIe bus throughput or "word-doubling," which is not a relevant concept. Option D is wrong, as RAPIDS does not rely on lossless compression for acceleration but on GPU-parallel processing. The course notes: "RAPIDS accelerates data science by enabling GPU-based processing of computationally intensive tasks and minimizing CPU-GPU memory transfers, significantly speeding up workflows." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing

問題 #26

What statement best describes the diffusion models in generative AI?

- A. Diffusion models are unsupervised models that use clustering algorithms to group similar data points together.
- B. Diffusion models are probabilistic generative models that progressively inject noise into data, then learn to reverse this process for sample generation.
- C. Diffusion models are discriminative models that use gradient-based optimization algorithms to classify data points.
- D. Diffusion models are generative models that use a transformer architecture to learn the underlying probability distribution of the data.

答案： B

解題說明：

Diffusion models, as discussed in NVIDIA's Generative AI and LLMs course, are probabilistic generative models that operate by progressively adding noise to data in a forward process and then learning to reverse this process to generate new samples. This involves a Markov chain that gradually corrupts data with noise and a reverse process that denoises it to reconstruct realistic samples, making them powerful for generating high-quality images, text, and other data. Unlike Transformer-based models, diffusion models rely on this iterative denoising mechanism. Option B is incorrect, as diffusion models are generative, not discriminative, and focus on data generation, not classification. Option C is wrong, as diffusion models do not use clustering algorithms but focus on generative tasks. Option D is inaccurate, as diffusion models do not inherently rely on Transformer architectures but use distinct denoising processes. The course states: "Diffusion models are probabilistic generative models that add noise to data and learn to reverse the process for sample generation, widely used in generative AI tasks." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing

問題 #27

Your company has upgraded from a legacy LLM model to a new model that allows for larger sequences and higher token limits. What is the most likely result of upgrading to the new model?

- A. The newer model allows larger context, so outputs will improve, but you will likely incur longer inference times.
- B. The newer model allows the same context lengths, but the larger token limit will result in more comprehensive and longer outputs with more detail.
- C. The number of tokens is fixed for all existing language models, so there is no benefit to upgrading to higher token limits.
- D. The newer model allows for larger context, so the outputs will improve without increasing inference time overhead.

答案： A

解題說明：

Upgrading to a new LLM with larger sequence lengths and higher token limits, as discussed in NVIDIA's Generative AI and LLMs course, typically allows the model to process larger contexts, leading to improved output quality due to better understanding of extended dependencies in text. However, handling larger sequences increases computational requirements, often resulting in longer inference times, especially on the same hardware. This trade-off is a key consideration in LLM deployment. Option A is incorrect, as token limits vary across models, and higher limits offer benefits. Option B is wrong, as larger context processing typically increases inference time. Option C is inaccurate, as higher token limits primarily enable larger context, not just longer outputs. The course notes: "Larger sequence lengths in LLMs allow for improved output quality by capturing more context, but this often comes at the cost of increased inference times due to higher computational demands." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

問題 #28

What is Retrieval Augmented Generation (RAG)?

- A. RAG is a technique used to fine-tune pre-trained LLMs for improved performance.
- B. RAG is an architecture used to optimize the output of an LLM by retraining the model with domain- specific data.
- C. RAG is a method for manipulating and generating text-based data using Transformer-based LLMs.
- D. RAG is a methodology that combines an information retrieval component with a response generator.

答案： D

解題說明：

Retrieval-Augmented Generation (RAG) is a methodology that enhances the performance of large language models (LLMs) by integrating an information retrieval component with a generative model. As described in the seminal paper by Lewis et al. (2020), RAG retrieves relevant documents from an external knowledge base (e.g., using dense vector representations) and uses them to inform the generative process, enabling more accurate and contextually relevant responses. NVIDIA's documentation on generative AI workflows, particularly in the context of NeMo and Triton Inference Server, highlights RAG as a technique to improve LLM outputs by grounding them in external data, especially for tasks requiring factual accuracy or domain- specific knowledge. Option A is incorrect because RAG does not involve retraining the model but rather augments it with retrieved data. Option C is too vague and does not capture the retrieval aspect, while Option D refers to fine-tuning, which is a separate process.

References:

Lewis, P., et al. (2020). "Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks." NVIDIA NeMo Documentation: <https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html>

問題 #29

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