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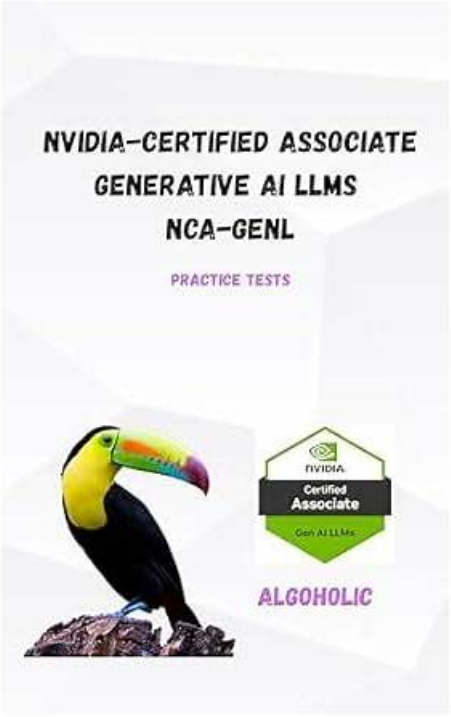

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NVIDIA NCA-GENL 考試大綱：

主題	簡介
主題 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.:

主題 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.
主題 3	• 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.
主題 4	• 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.
主題 5	• 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.
主題 6	• Experiment Design
主題 7	• 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.

只有最好的NCA-GENL套裝才能提供NVIDIA Generative AI LLMs的最高通過率

擁有NVIDIA NCA-GENL認證考試證書可以幫助在IT領域找工作的人獲得更好的就業機會，也將會為成功的IT事業做好鋪墊。

最新的 NVIDIA-Certified Associate NCA-GENL 免費考試真題 (Q75-Q80):

問題 #75
Which of the following best describes Word2vec?

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

答案：D

解題說明：
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

問題 #76
What is the purpose of the NVIDIA NGC catalog?

- A. To provide a platform for testing and debugging software applications.
- B. To provide a platform for developers to collaborate and share software development projects.
- C. To provide a curated collection of GPU-optimized AI and data science software.
- D. To provide a marketplace for buying and selling software development tools and resources.

答案：C

解題說明：
The NVIDIA NGC catalog is a curated repository of GPU-optimized software for AI, machine learning, and data science, as highlighted in NVIDIA's Generative AI and LLMs course. It provides developers with pre- built containers, pre-trained models, and tools optimized for NVIDIA GPUs, enabling faster development and deployment of AI solutions, including LLMs. These resources are designed to streamline workflows and ensure compatibility with NVIDIA hardware. Option A is incorrect, as NGC is not primarily for testing or debugging but for providing optimized software. Option B is wrong, as it is not a collaboration platform like GitHub. Option C is inaccurate, as NGC is not a marketplace for buying and selling but a free resource hub.
The course notes: "The NVIDIA NGC catalog offers a curated collection of GPU-optimized AI and data science software, including containers and models, to accelerate development and deployment." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

問題 #77
Which Python library is specifically designed for working with large language models (LLMs)?

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

答案：D

解題說明：
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

問題 #78
What is the correct order of steps in an ML project?

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

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 #79
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. Cheaper computational costs during inference.
- C. It is easier to explain the predictions.
- D. Trained without the need for labeled data.
- E. Smaller latency, higher throughput.

答案： A,B

解題說明：
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."

問題 #80
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長久以來，NVIDIA 就是電腦的代名詞。無論在美國國內還是在世界的電腦領域裏，NVIDIA 都有著極其深遠的影響。而 NCA-GENL 考試是 NVIDIA 公司的 NVIDIA Generative AI LLMs 證照考試官方代號，也是現在最熱門的證照考試，含金量很高。而獲得 NVIDIA 的 NCA-GENL 證照不僅僅能證明您的IT技術能力，更是您進入職場的敲門磚，也是提高您身價的另一捷徑。

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