

# New NCA-GENL Latest Exam Fee Free PDF | Pass-Sure NCA-GENL Examcollection Dumps Torrent: NVIDIA Generative AI LLMs

জনাব শহীদ একটি বিমা কোম্পানির আর্থিক ব্যবস্থাপক। কোম্পানির বিচার মান ১.৬। বাজার আয়ের হার ১৬% এবং ট্রেজারি বিলের আয়ের হার ৭%। ঢাকা সিটিং কোম্পানির ফান্ড ম্যানেজার জনাব আবদু আর্থিক বাজারে একটি সিকিউরিটিতে বিনিয়োগ না করে একাধিক সিকিউরিটিতে বিনিয়োগ করে ঝুঁকি হ্রাস করতে চান। তাই তিনি নিম্নের যেকোন একটি পোর্টফোলিতে বিনিয়োগের চিন্তা করছেন।

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ক. মুনাফার হার নির্ণয়ের সমীকরণটি লিখ। ১

খ. সি.এপি.এম এর সাহায্যে কীভাবে বিনিয়োগ সিদ্ধান্ত গ্রহণ করা যায়? ব্যাখ্যা কর। ২

গ. উদ্দীপকে বিমা কোম্পানির প্রয়োজনীয় আয়ের হার নির্ণয় কর। ৩

ঘ. জনাব শহীদে কোন পোর্টফোলিতে বিনিয়োগ করা উচিত তা বিশ্লেষণ কর। ৪

জনাব আতা বিনিয়োগের যে দুটি প্রকল্পের তথ্য সংগ্রহ করেছেন তা নিম্নে তুলে ধরা হলো:-

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## NVIDIA Generative AI LLMs Sample Questions (Q87-Q92):

### NEW QUESTION # 87

Which of the following best describes Word2vec?

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

**Answer: B**

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 # 88

You have developed a deep learning model for a recommendation system. You want to evaluate the performance of the model using A/B testing. What is the rationale for using A/B testing with deep learning model performance?

- A. A/B testing ensures that the deep learning model is robust and can handle different variations of input data.
- B. A/B testing methodologies integrate rationale and technical commentary from the designers of the deep learning model.
- **C. A/B testing allows for a controlled comparison between two versions of the model, helping to identify the version that performs better.**
- D. A/B testing helps in collecting comparative latency data to evaluate the performance of the deep learning model.

**Answer: C**

Explanation:

A/B testing is a controlled experimentation method used to compare two versions of a system (e.g., two model variants) to determine which performs better based on a predefined metric (e.g., user engagement, accuracy).

NVIDIA's documentation on model optimization and deployment, such as with Triton Inference Server, highlights A/B testing as a method to validate model improvements in real-world settings by comparing performance metrics statistically. For a recommendation system, A/B testing might compare click-through rates between two models. Option B is incorrect, as A/B testing focuses on outcomes, not designer commentary. Option C is misleading, as robustness is tested via other methods (e.g., stress testing). Option D is partially true but narrow, as A/B testing evaluates broader performance metrics, not just latency.

References:

NVIDIA Triton Inference Server Documentation: <https://docs.nvidia.com/deeplearning/triton-inference-server/user-guide/docs/index.html>

### NEW QUESTION # 89

How does A/B testing contribute to the optimization of deep learning models' performance and effectiveness in real-world applications? (Pick the 2 correct responses)

- A. A/B testing allows for the comparison of different model configurations or hyperparameters to identify the most effective setup for improved performance.
- B. A/B testing is irrelevant in deep learning as it only applies to traditional statistical analysis and not complex neural network models.
- C. A/B testing guarantees immediate performance improvements in deep learning models without the need for further analysis or experimentation.
- D. A/B testing in deep learning models is primarily used for selecting the best training dataset without requiring a model architecture or parameters.
- E. A/B testing helps validate the impact of changes or updates to deep learning models by statistically analyzing the outcomes of different versions to make informed decisions for model optimization.

**Answer: A,E**

Explanation:

A/B testing is a controlled experimentation technique used to compare two versions of a system to determine which performs better. In the context of deep learning, NVIDIA's documentation on model optimization and deployment (e.g., Triton Inference Server) highlights its use in evaluating model performance:

\* Option A: A/B testing validates changes (e.g., model updates or new features) by statistically comparing outcomes (e.g., accuracy or user engagement), enabling data-driven optimization decisions.

References:

NVIDIA Triton Inference Server Documentation: <https://docs.nvidia.com/deeplearning/triton-inference-server/user-guide/docs/index.html>

### NEW QUESTION # 90

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

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

**Answer: B**

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 # 91

What is the main consequence of the scaling law in deep learning for real-world applications?

- A. With more data, it is possible to exceed the irreducible error region.
- B. Small and medium error regions can approach the results of the big data region.
- C. The best performing model can be established even in the small data region.
- D. In the power-law region, with more data it is possible to achieve better results.

**Answer: D**

Explanation:

The scaling law in deep learning, as covered in NVIDIA's Generative AI and LLMs course, describes the relationship between model performance, data size, model size, and computational resources. In the power-law region, increasing the amount of data, model parameters, or compute power leads to predictable improvements in performance, as errors decrease following a power-law trend. This has significant implications for real-world applications, as it suggests that scaling up data and resources can yield better results, particularly for large language models (LLMs). Option A is incorrect, as the irreducible error represents the inherent noise in the data, which cannot be exceeded regardless of data size. Option B is wrong, as small data regions typically yield suboptimal performance compared to scaled models. Option C is misleading, as small and medium data regimes do not typically match big data performance without scaling.

The course highlights: "In the power-law region of the scaling law, increasing data and compute resources leads to better model performance, driving advancements in real-world deep learning applications." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

## NEW QUESTION # 92

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