NCA-GENL
應考經驗分享

大綱

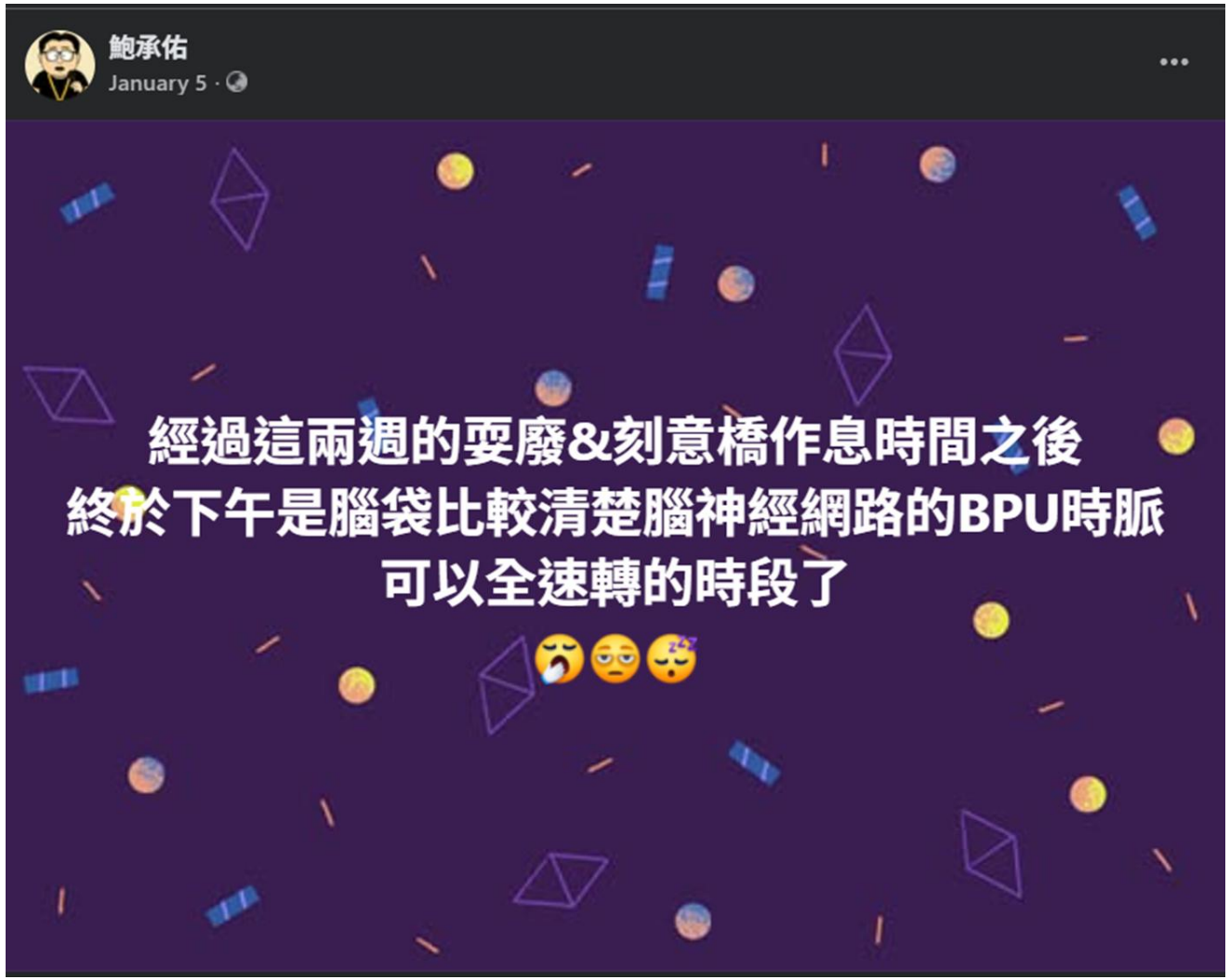
1. 考試動機
2. 考試日期/時間生理時鐘調整
3. 考試範圍與自身已瞭解的知識對齊
4. 模擬測試&學習策略
5. 最後倒數準備&當天考試情形
6. 總結

考試動機

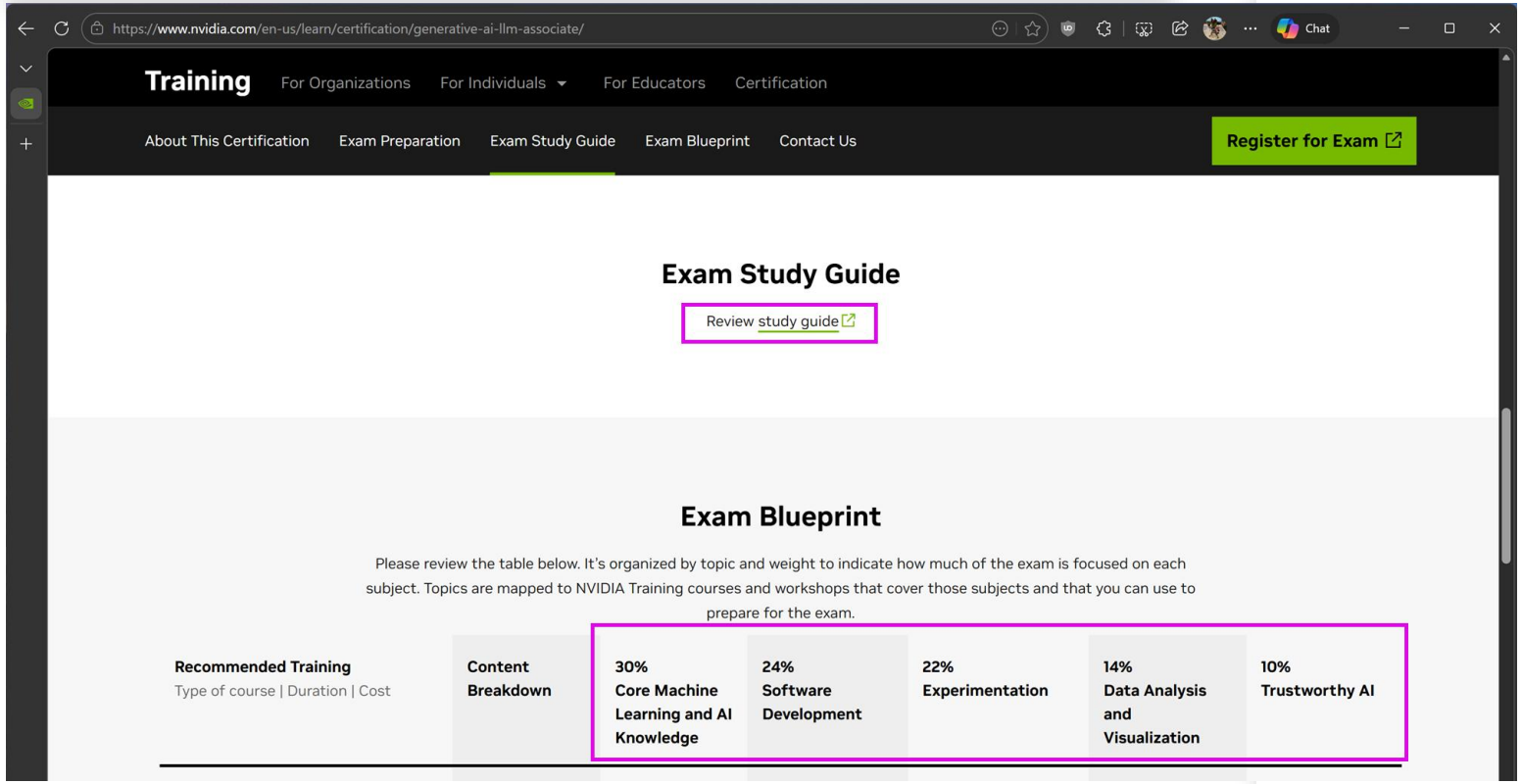
- 做RAG(專案/項目)需求
- 想搞懂LLM大模型那堆
  Top-P/Top-K眾多參數是做什麼
- 年底考試NV有半價折扣碼

考試日期/時間生理時鐘調整

- 大腦通常在睡醒後3~4小時是最清醒狀態
- 連續運作8小時之後就會開始恍惚/變笨
- 喝提神飲料/咖啡/茶雖然可以延長清醒狀態，但暫時記憶/工作記憶仍會隨著大腦長時間連續運作而衰竭

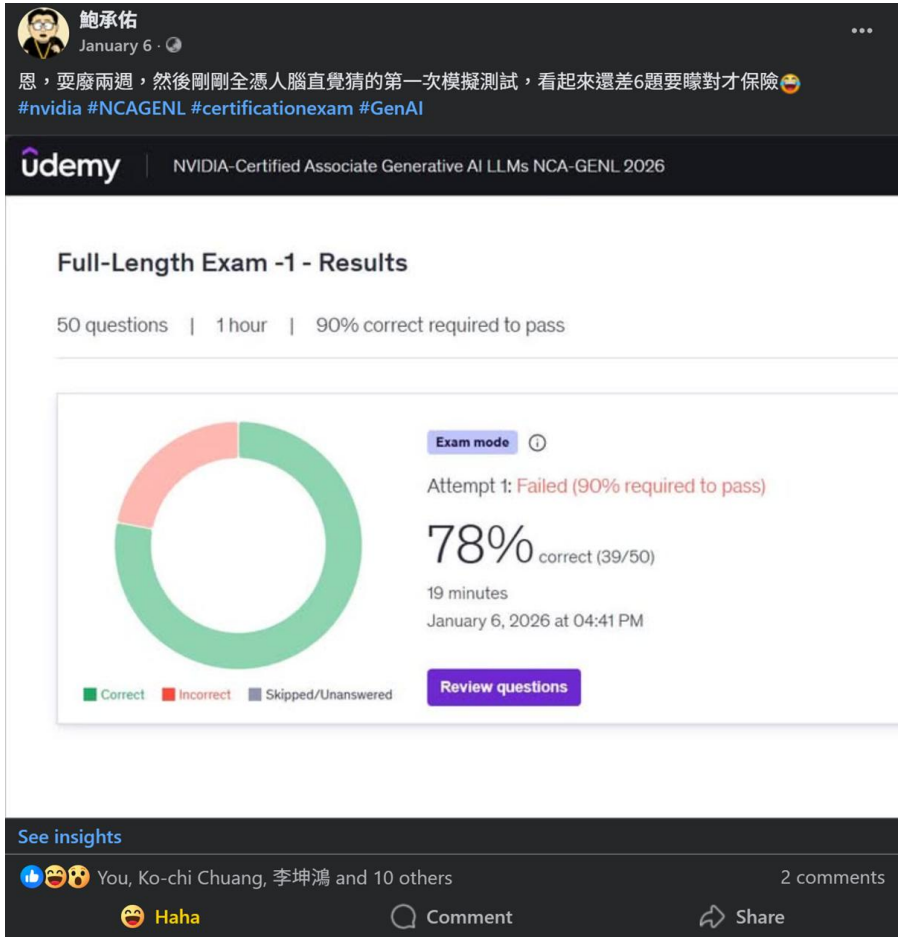

鮑承佑
January 5 ·
經過這兩週的耍廢&刻意橋作息時間之後
終於下午是腦袋比較清楚腦神經網路的BPU時脈
可以全速轉的時段了
🥱😔😴

考試範圍與自身已瞭解的知識對齊



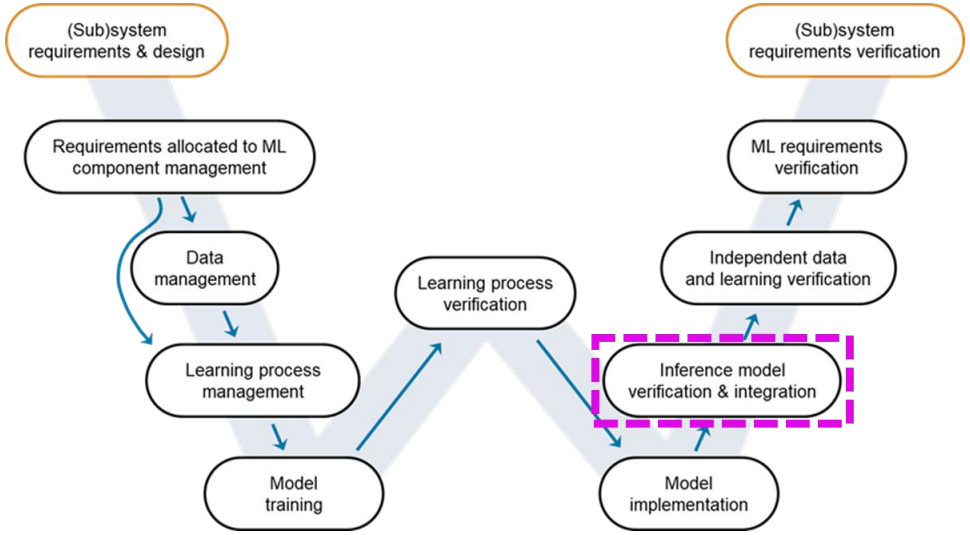
考試範圍與自身已瞭解的知識對齊

- 一開始完全耍廢沒唸書時，用第三方模擬試題快速猜/答題檢測出自己會的/不會的知識
- 根據測驗結果來制訂時間表/攻讀考試內容之順序
- **證照考試不要求所有考題全對**，但至少設計/出考題者希望考生會的範圍/程度，務必搞懂。



模擬測試 & 學習策略

- 模擬測試就像是對人腦做機器學習(Machine Learning)訓練結果的”驗證階段(Verification and Validation)”，但終究只是模擬，不代表真實測驗結果



https://blogs.mathworks.com/deep-learning/2023/07/11/the-road-to-ai-certification-the-importance-of-verification-and-validation-in-ai/

Exam mode

Attempt 1: Passed! (70% required to pass)

95% correct (47/49)

15 minutes

February 3, 2026 at 04:29 PM

Review questions

Domains

Prompt Engineering (5 questions)
100%

LLM Use Cases (5 questions)
80% 20%

Advanced & Conceptual (5 questions)
100%

Training vs Fine-Tuning (5 questions)
100%

AI & ML Fundamentals (4 questions)
100%

Practical & Operations (5 questions)
100%

Transformer & Architecture (5 questions)
100%

Deployment & Inference (5 questions)
80% 20%

Responsible & Trustworthy AI (5 questions)
100%

NVIDIA Ecosystem Awareness (5 questions)
100%

Correct Incorrect Skipped/Unanswered

- [x] Practice Test 3: Practice Test 3
- [x] Practice Test 4: Practice Test 4
- [x] Practice Test 5: Practice Test 5
- [ ] Practice Test 6: Practice Test 6

Retake test Continue

模擬測試

- 如果是無法變換出題/選擇題選項順序的模擬測試題庫，做過一次就好，避免自己的腦袋開始『過擬合(Overfitting)』變成某種背答案🤯
- 一開始準備考試時，唸書後隔1~3天再做一次模擬考試，需要花時間的重點是答錯的逐題檢討以及將每個選項內容搞懂
- 接近考試日期前一兩週，儘量每天在應考時段內，密集練習

生成式 AI 和大语言模型相关测试

单选题	多选题	分数
36分/45分	4分/5分	40

还差一点点，多刷几遍题吧

再填一次

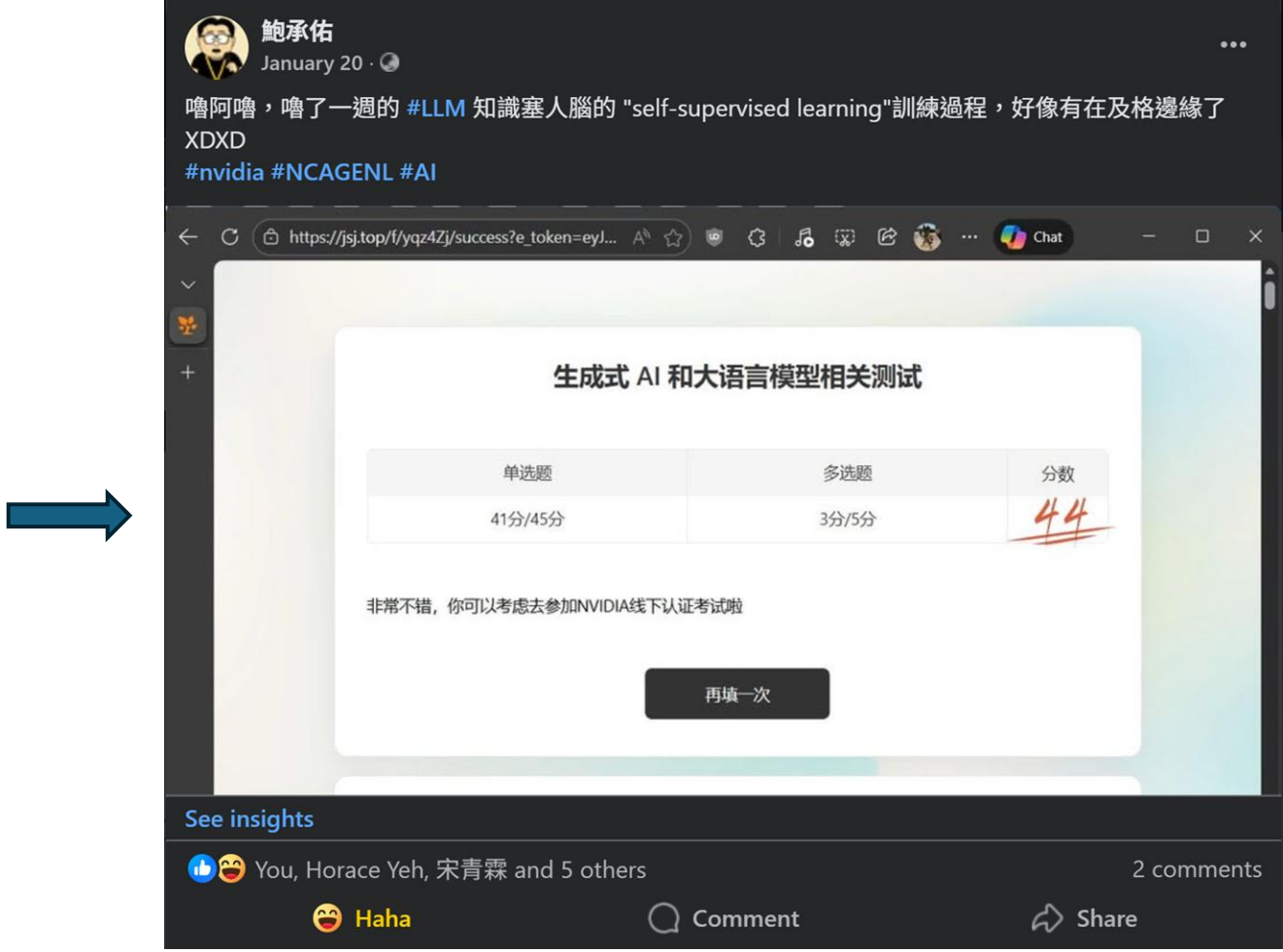
我的答卷

显示全部 只看错题

在语言模型的场景下，自回归模型会预测什么？ (1分)

- 给定之前的词元，预测文本中下一个词元的概率。 正确答案
- 通过对过去词元进行蒙特卡洛采样，来预测下一个词元的概率。
- 仅使用循环网络或 LSTM 单元来预测下一个词元。 我的答案 ✕
- 通过查看之前和未来的输入词元，来预测下一个词元的概率。

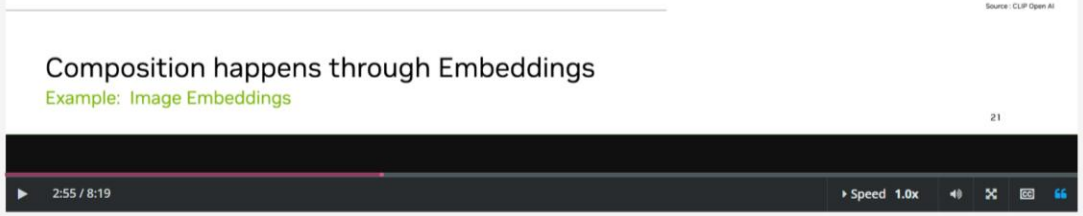
回答错误 (+0分)



學習策略

- 線上學習完整/補充零碎記憶的資源：
  - NVIDIA官方DLI Self-paced教材
  - NVIDIA DEVELOPER blog
  - geeksforgeeks.org 網站Machine Learning分類文章
  - 台大李宏毅機器學習YouTube影片
  - Udemy.com 線上課程
  - Gemini AI “Guided Learning” 功能
  - 微信有關AI/ML論文相關官方公眾號(ex:机器之心、论文速读馆)
- 有連貫完整系統內容的紙本/電子書(補充/另外參考用)
  - 揭秘大模型：从原理到实战
  - Hands-On Large Language Models

Applications of Generative AI - Other Modalities



And then we can take a small amount of data, say, for example, data from my voice where I spend 1/2 an hour recording

in a studio to get a custom voice and then resynthesize, let's say, my voice in English, the language that I'm natively speaking, but then also allow me to speak in a new language.

So here's a sample of speech synthesis in the native language of a speaker that was given just a small amount of data.

They say it's darkest before the dawn.

We've been in this town for far too long.

And then, without having to teach that person how to speak Hindi, we can enable that person to speak in Hindi using another generative model.

So there are many different forms that generative AI can take, many different modalities.

And the interesting thing is that they're starting to compose and conjoin.

So I was talking earlier about how language models can use tools.

Well, we can also connect language models with image synthesis models, 3D synthesis models, speech synthesis models, video synthesis models, in order to make models that can understand and synthesize content in all sorts of different

modalities.

And I think that's going to be a trend for the next year or so.

And how does this composition work?

Well, the composition happens through embeddings.

And I'm going to give an example from image embeddings, which are able to connect images and text.

This one, again, comes from OpenAI.

It's called Clip.

And the idea is that if you are able to collect a large

training set of images with captions, maybe just very simple captions that describe what's inside the image.

You can do a training step where we create an abstract space that's just a bunch of vectors where we project each of these images and each of these text examples into the same space using a neural network.

And then when we train the neural network

We are actually training it so that if you have a label for a particular image, that it has the same embedding in this vector space.

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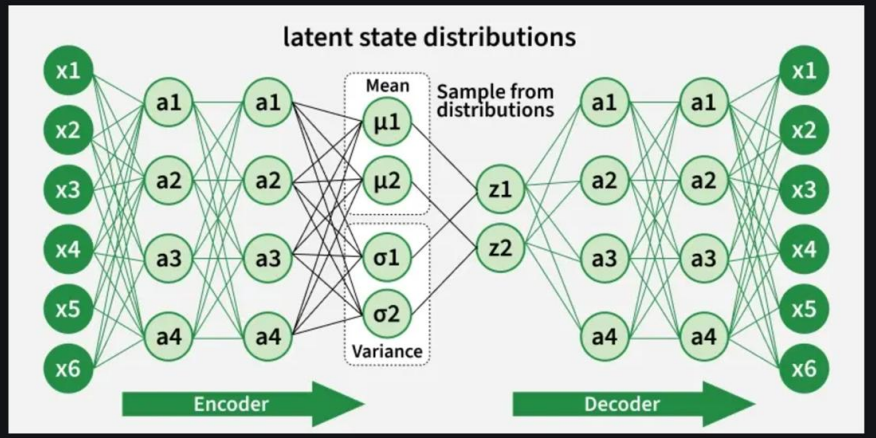
Variational AutoEncoders

Last Updated : 16 Dec, 2025

Variational Autoencoders (VAEs) are generative models that learn a smooth, probabilistic latent space, allowing them not only to compress and reconstruct data but also to generate entirely new, realistic samples. VAEs capture the underlying structure of a dataset and produce outputs that closely resemble the original data.

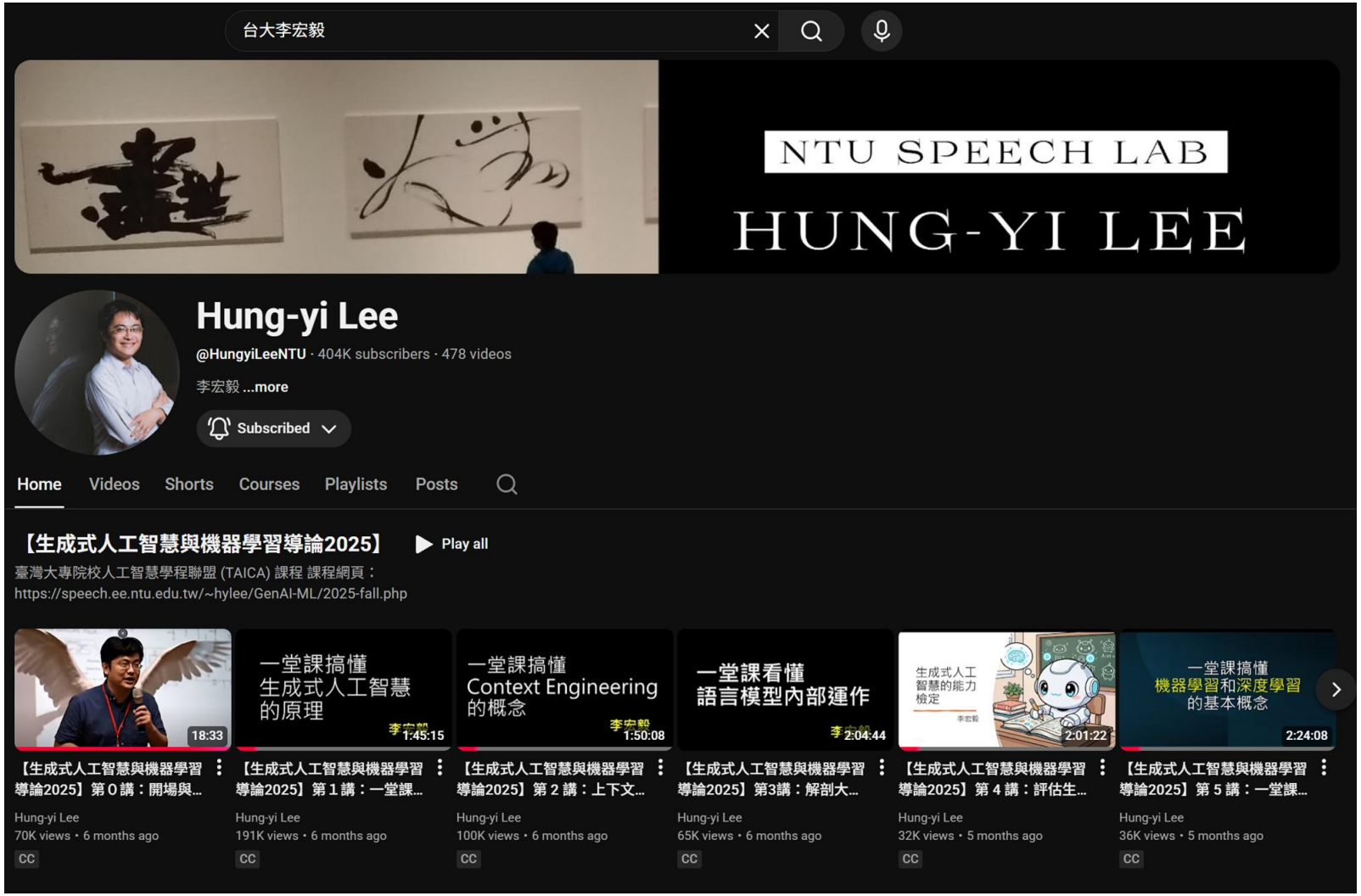
- Learns a continuous latent representation
- Enables controlled and meaningful data generation
- Widely used in image synthesis, anomaly detection, and representation learning

Architecture of Variational Autoencoder



Variational Autoencoder

VAE is a special kind of autoencoder that can generate new data instead of just compressing and reconstructing it. It has three main parts: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https://speech.ee.ntu.edu.tw/~hylee/GenAI-ML/2025-fall.php
18:33
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生成式人工智慧
的原理
1:45:15
一堂課搞懂
Context Engineering
的概念
1:50:08
一堂課看懂
語言模型內部運作
2:04:44
生成式人工
智慧的能力
檢定
2:01:22
一堂課搞懂
機器學習和深度學習
的基本概念
2:24:08
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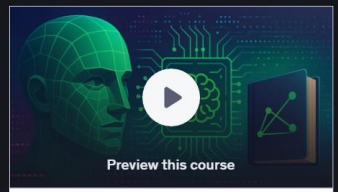
4.1 ★★★★☆ (55 ratings) 10,220 students

Created by Vivian Aranha , School of AI

Last updated 3/2026 English English [Auto],



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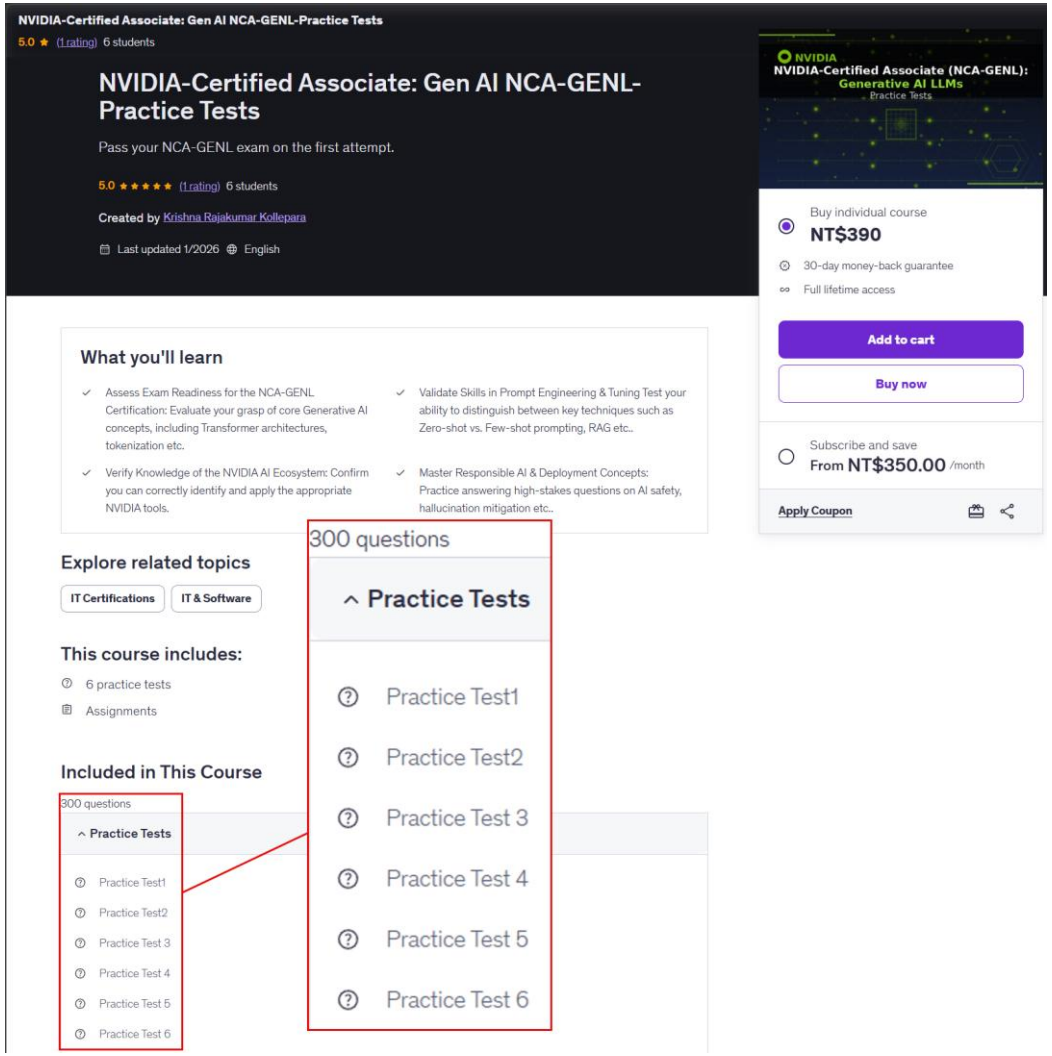
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Assess Exam Readiness for the NCA-GENL Certification: Evaluate your grasp of core Generative AI concepts, including Transformer architectures, tokenization etc.
Validate Skills in Prompt Engineering & Tuning Test your ability to distinguish between key techniques such as Zero-shot vs. Few-shot prompting, RAG etc..
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Assignments
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300 questions
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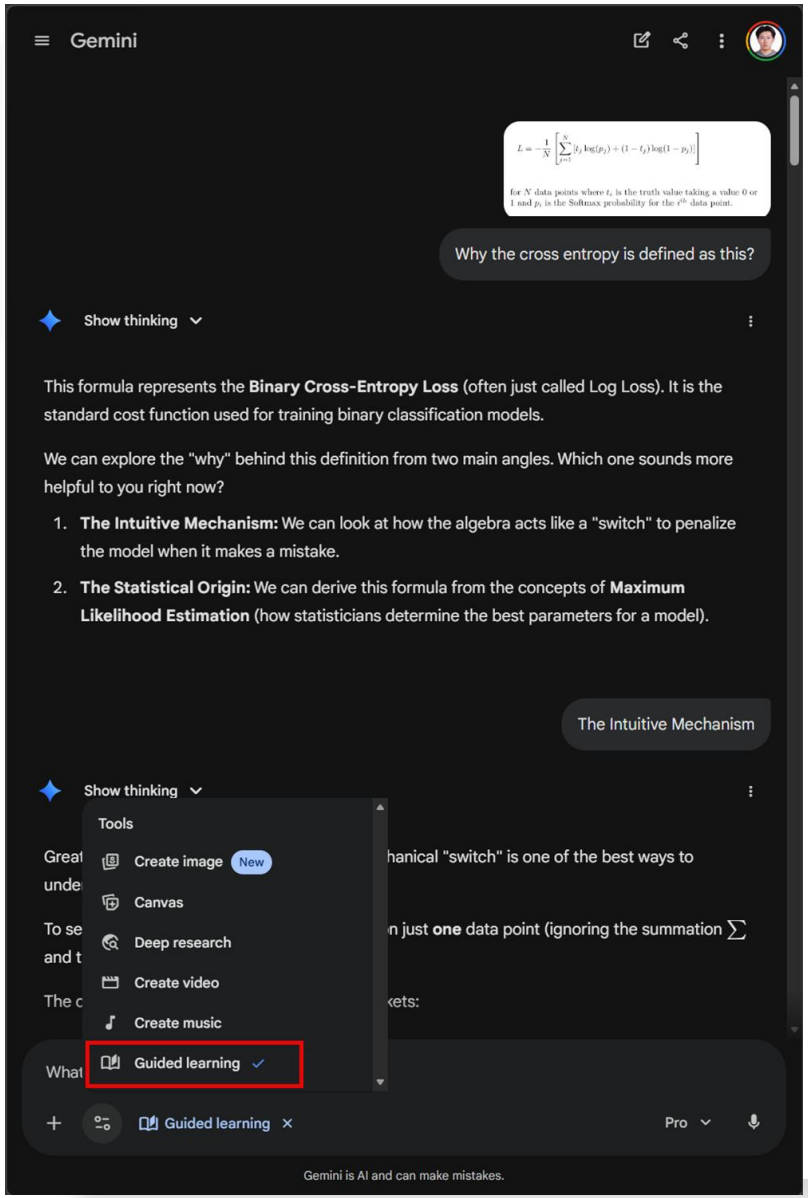
Practice Test2
Practice Test 3
Practice Test 4
Practice Test 5
Practice Test 6
300 questions
Practice Tests
Practice Test1
Practice Test2
Practice Test 3
Practice Test 4
Practice Test 5
Practice Test 6

學習策略 –
數學不會就是不會? 😵

- 現在有大語言AI服務，一些數學公式/概念不懂時，可直接截圖問 AI
- Gemini AI 的 “Guided Learning” 以一種蘇格拉底式對話問答的方式讓你逐步拆解概念，雖然比較花時間，但比較容易搞懂 👍



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Hands-On Large Language Models

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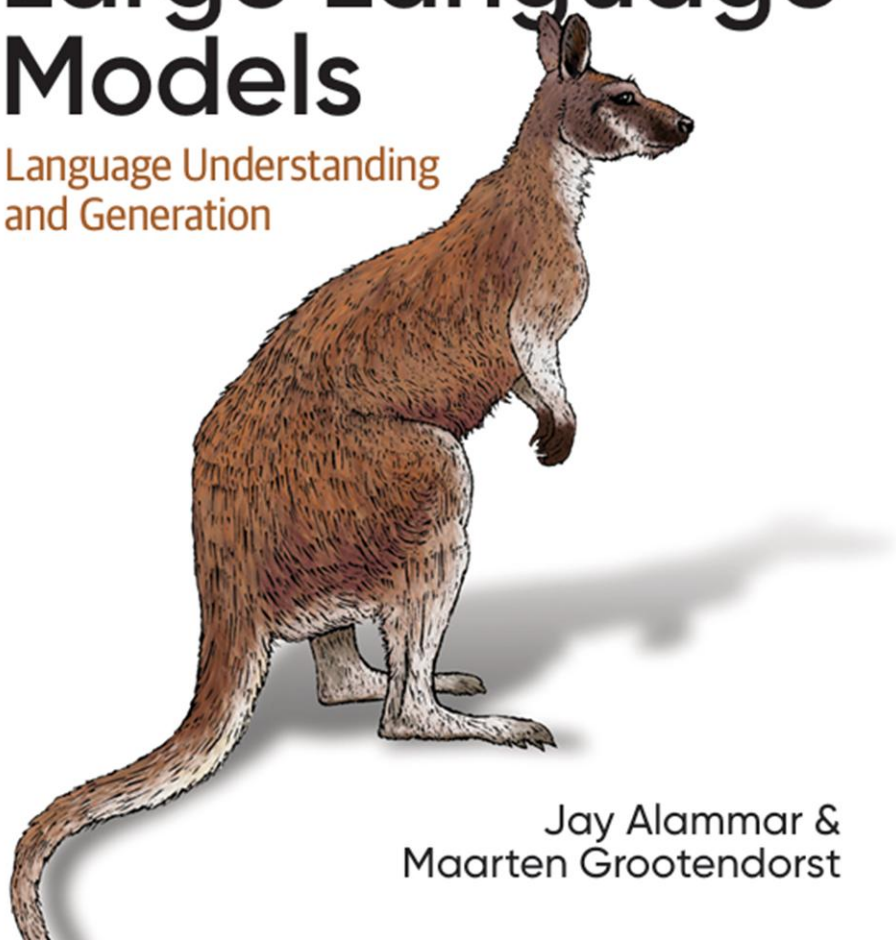

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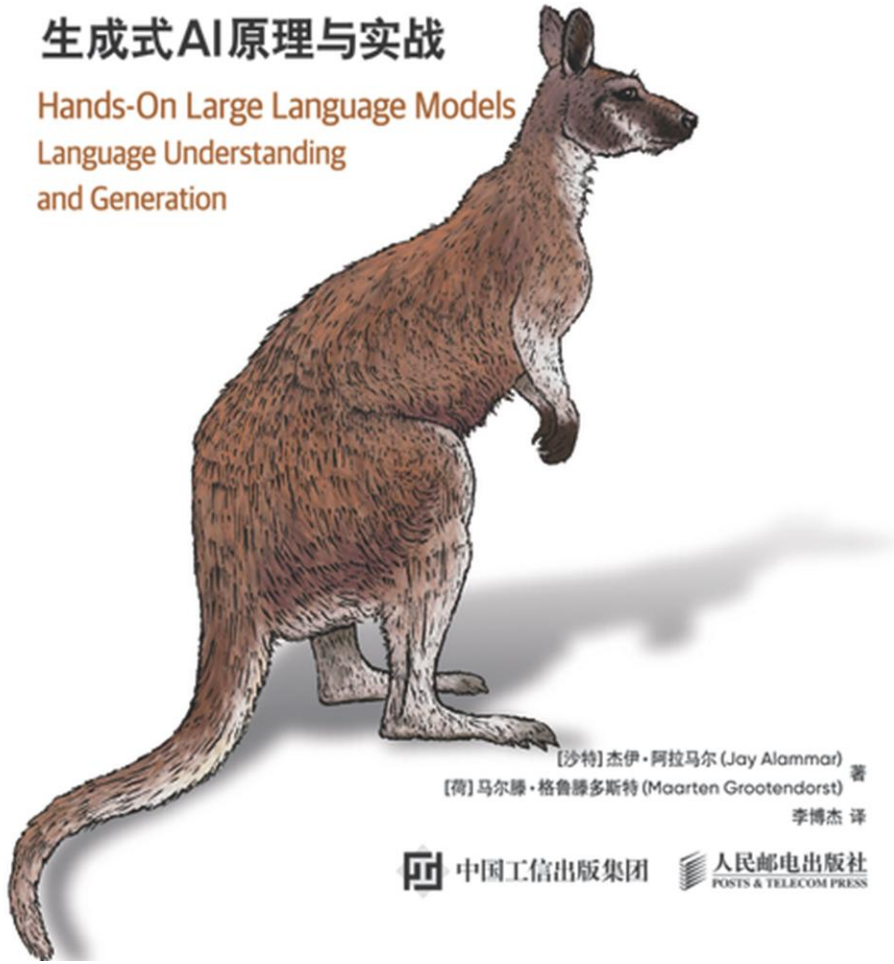

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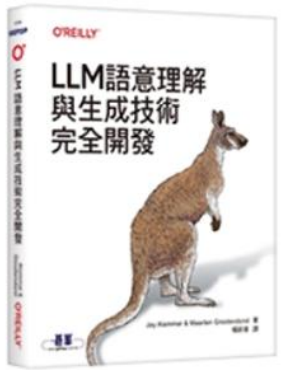
LLM 語意理解與生成技術完全開發 (Hands-On Large Language Models)

Jay Alammar, Maarten Grootendorst 著 楊新章 譯



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相關翻譯:	圖解大模型：生成式 AI 原理與實戰 (全彩) (簡中版)

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加入購物車 加入追蹤清單

最後倒數準備&當天考試情形

- 倒數一兩週建議每天做模擬測驗，縮寫名詞好說歹說用力背起來
- 機器學習/LLM相關理論&數學如果還搞不懂，已經來不及了😂，但模擬試題有出現的術語請務必寫筆記記起來加強記憶
- NVIDIA相關開發工具如果沒有使用過，也務必將模擬試題中有出現的名稱，搜尋並筆記官方產品/文件網址以方便日後查找

Nvidia product lines:

- https://developer.nvidia.com/topics/ai/data-science
  - https://developer.nvidia.com/topics/ai/data-science/cuda-x-data-science-libraries/cudf
  - https://developer.nvidia.com/topics/ai/data-science/cuda-x-data-science-libraries/cuml
- https://developer.nvidia.com/topics/ai/generative-ai
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- https://www.nvidia.com/en-us/ai-data-science/ai-workflows.md/
- https://docs.nvidia.com/datacenter/tesla/mig-user-guide/concepts.html
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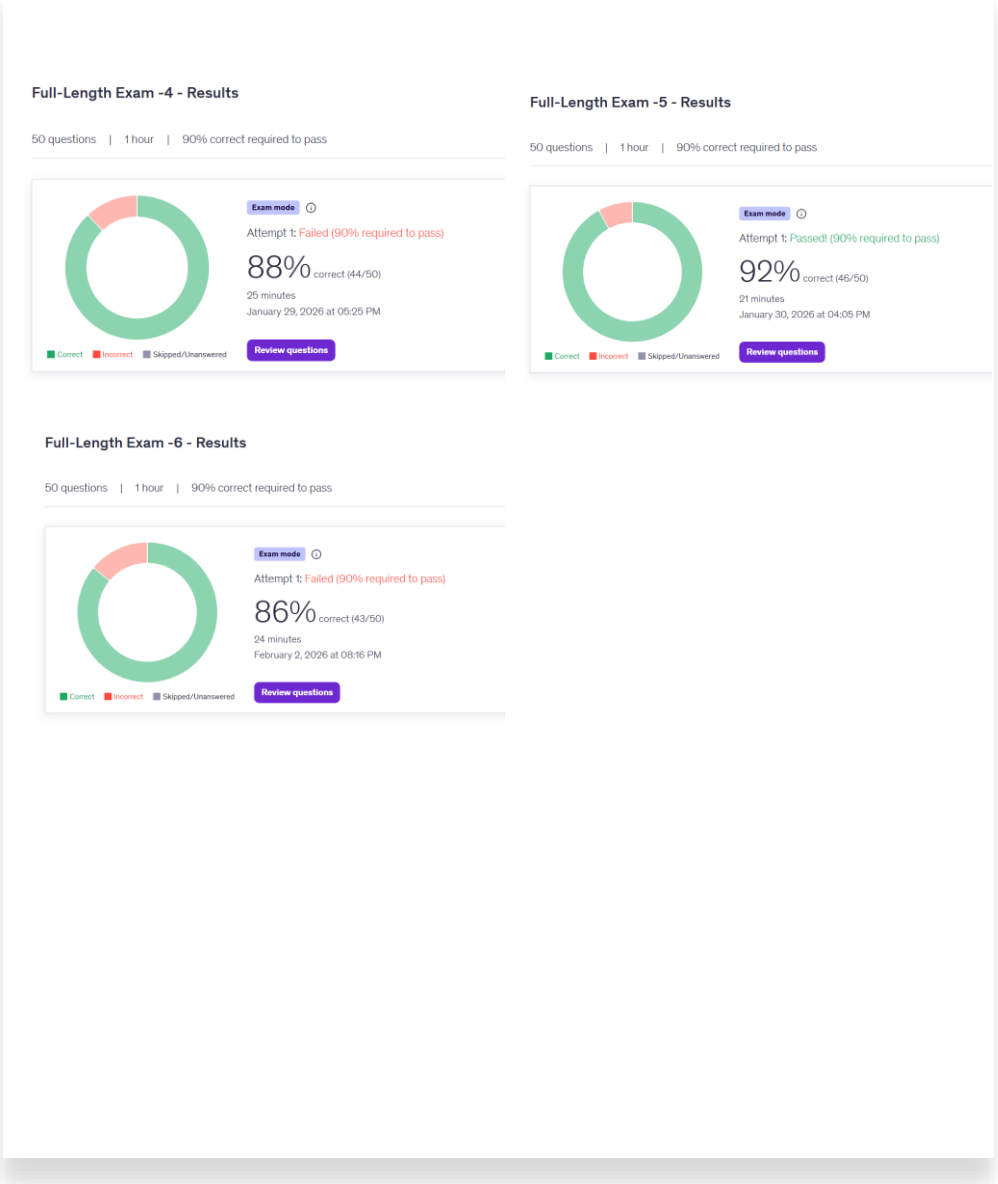
  - https://docs.nvidia.com/nemo-framework/user-guide/latest/overview.html
  - https://docs.nvidia.com/nemo-framework/user-guide/latest/nemotoolkit/core/core.html#
- https://developer.nvidia.com/cuda/toolkit
  - https://developer.nvidia.com/cuda/cuda-x-libraries
    - https://developer.nvidia.com/cudnn
  - https://www.nvidia.com/en-us/glossary/xgboost/
- https://docs.nvidia.com/nsight-systems/index.html
- https://docs.nvidia.com/base-command-manager/
- https://nvdla.org/

最後倒數準備

- 考前模擬試題其實測試的結果還是上上下下的，不能太放鬆
- 但因為這模擬試題沒有多選題，所以測驗分數也未必足夠真實
- 考前一天務必提早睡覺、儘量睡飽，放寬心，該做的都做了🤗



當天考試情形

- 報考實體考試，因為避免自己住處因為對街口正在蓋大樓挖斷供電/網路(不怕一萬只怕萬一)
- 實體考試方有提供應測電腦，實際真人盯場，省去自己住處設定設備＆監考webcam精力

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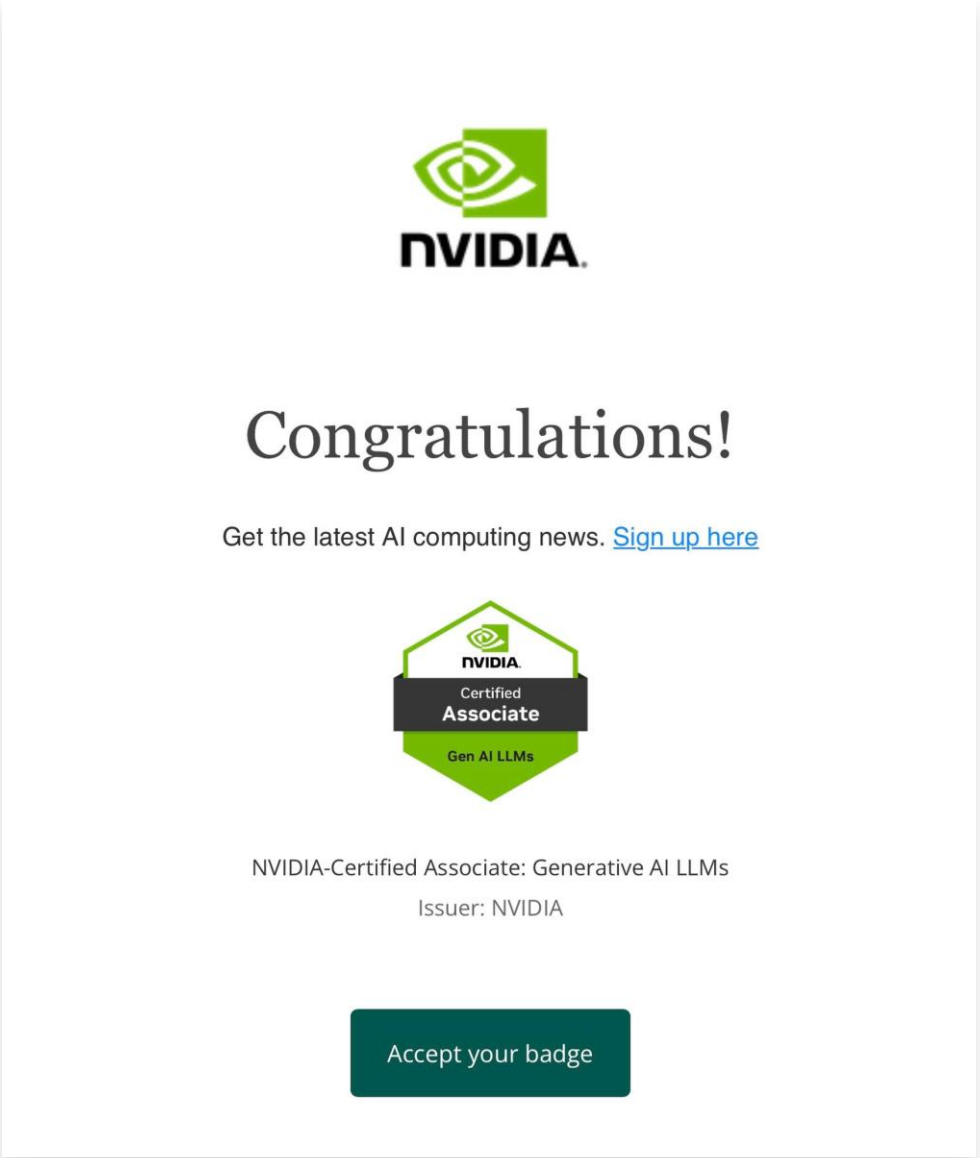
當天考試情形

- 考完後會很快就寄信告知結果
- 如果有通過，可以馬上有能夠加入在領英(LinkedIn)社群網站上的 badge



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Score Report

Congratulations [redacted] you have passed the NCA - Gen AI LLMs.

Section scores are meant only as a suggestion for further study and do not reflect absolute scores in each section.
Section scores are an average of your overall exam score and your section score. Please use these only as study guidance.

Topic Name	Score
Core ML/AI Knowledge	82 %
Data Analysis and Visualization	92 %
Experimentation	87 %
Software Development	79 %
Trustworthy AI	82 %

Security / Trust Center

好險沒浪費錢了🤓👍

總結

- 人總是需要“機器學習”自己的大腦，時時更新🤖
- AI時代好像啥都問AI就好不必學，但前提是你自己知道要問什麼/怎麼問
- 知其然，也知其所以然的感覺比較好😎