



NCHC End2End LLM Bootcamp

Aug 6-7, 2024

NCHC X OpenACC X NVIDIA

NCHC End-to-End LLM Bootcamp

<https://www.openhackathons.org/s/siteevent/a0CUP00000L45Bx2AJ/se000345>



Events

Attendees

Mentors

About

Resources

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NCHC END-TO-END LLM BOOTCAMP

August 6-7, 2024

Application Deadline: July 16, 2024

Hybrid Event



Co-innovate with Developers

Connect

Developers & Mentors

Co-innovate

on Accelerated Platform

Celebrate


through Publication

Team Roster



Cliff Chiu 




Sungta Tsai 

Instructors




Iven Fu 




Virginia Chen 

Teaching Assistants



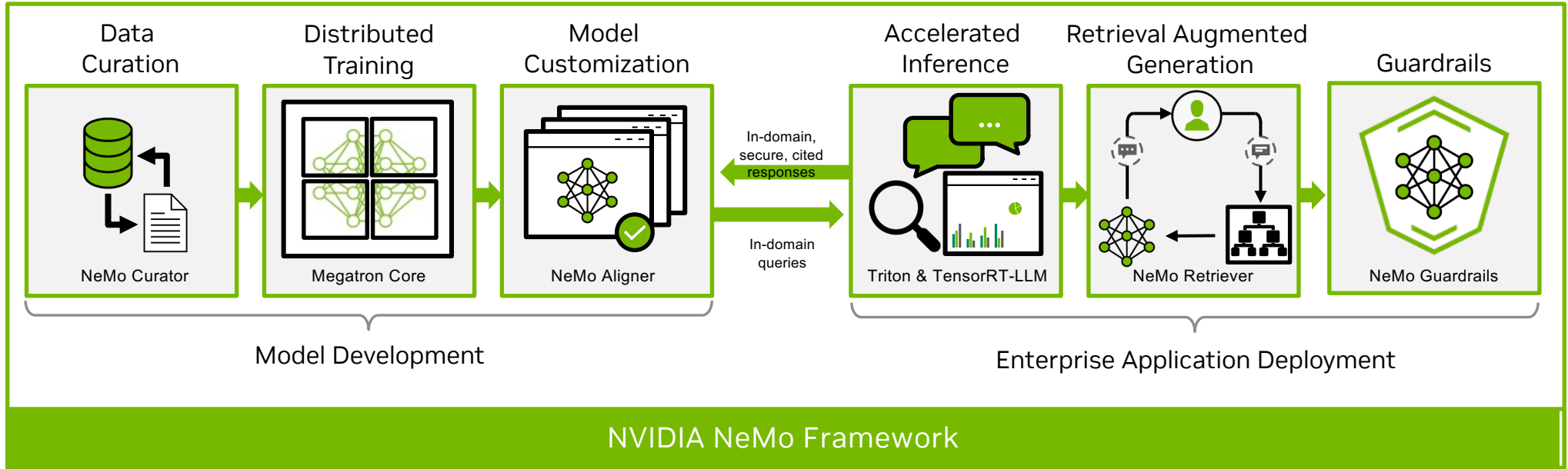
Yang-Hsien Lin 



Johnson Sun 

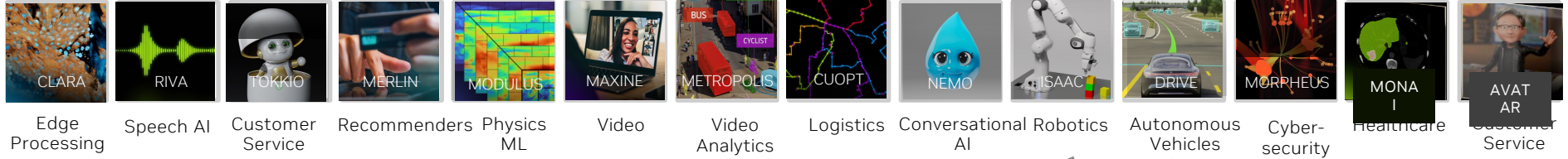
Building an End-to-End Generative AI

Build, customize and deploy generative AI models with NVIDIA NeMo

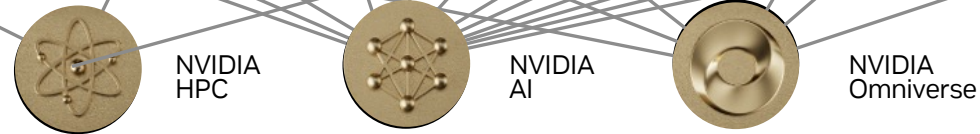


Platforms for Discovery

AI APPLICATION FRAMEWORK

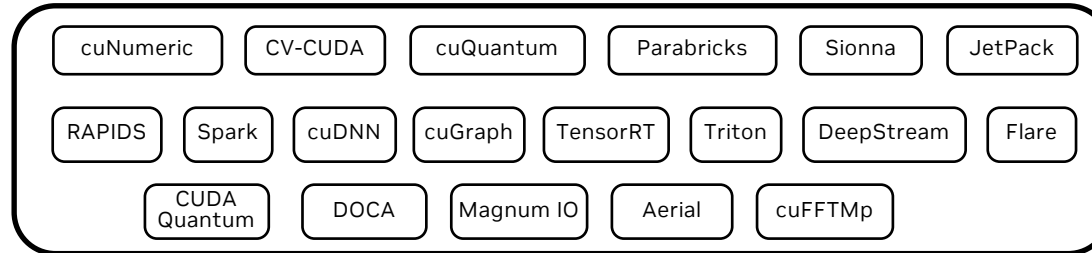


PLATFORMS



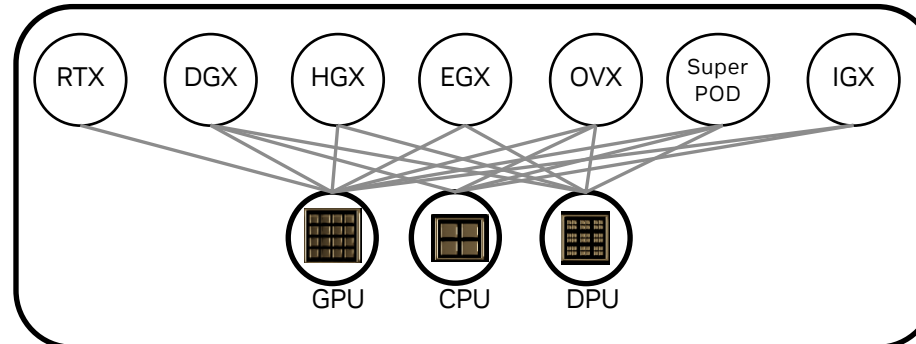
ACCELERATION LIBRARIES

4M+ Developers
450+ SDKs/Models



CLOUD-TO-EDGE DATACENTER-TO-ROBOTIC SYSTEMS

3 CHIPS



NCHC-NVIDIA Joint Lab

<https://github.com/nqobu/nvidia/tree/main>

Repository for NCHC-NVIDIA Joint Lab

- tutorials - NVIDIA online courses/tutorials in AI/HPC
- 20210412 - NVIDIA Techniques Sharing 2021
- 20210706 - NCHC Techniques Sharing 2021
- 20211202 - NVIDIA Techniques Update 2021
- 20211221 - AI+HPC: 利用 NVIDIA Modulus 實踐 PINN 於物理模擬
- 20220415 - NVIDIA Techniques Update 2022
- 20220530 - NCHC-NVIDIA Techniques Sharing 2022
- 20220629 - PINN 與 NVIDIA Modulus 實作訓練營
- 20221111 - Quantum Computing Workshop / 量子計算模擬實作
- 20230413 - NVIDIA Techniques Sharing 2023
- 20230517 - NVIDIA Techniques Briefing: NVIDIA Federated Learning
- 20230525 - AI for Science: NVIDIA Modulus 及 NVIDIA Omniverse 實作
- 20230727 - N-Ways to GPU Programming Bootcamp / 多 GPU 程式設計訓練課程
- 20230821 - NVIDIA Techniques Salon 2023: Programming the NVIDIA Superchip
- 20231207 - NCHC Open Hackathon 2023
- 20240410 - NCHC Quantum Computing Bootcamp 2024
- 20240506 - AI for Science: NVIDIA Modulus, NVIDIA Omniverse, and NVIDIA Earth-2
- 20240508 - NCHC Techniques Sharing 2024
- 20240626 - NCHC AI for Science Bootcamp 2024 - NVIDIA Modulus 物理模擬計算
- 20240806 - NCHC End-to-end LLM Bootcamp 2024 - NVIDIA NeMo 大型語言模型框架

2024 NCHC Open Hackathon Registration

<https://www.openhackathons.org/s/siteevent/a0C5e000008dX2GEAU/se000298>



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NCHC OPEN HACKATHON

November 13, 2024 - December 04, 2024

Application Deadline: October 15, 2024

Hybrid Event



學研成果

日期

開始日期

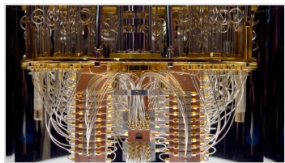
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結束日期

關鍵字

關鍵字

ex : 2019/01/01



2024.01.30

【2023 NCHC, NVIDIA, OpenACC 黑客松】- HPC、DPU及量子運算加速成果



2024.01.30

【2023 NCHC, NVIDIA, OpenACC 黑客松】-大氣科學應用加速成果



2024.01.30

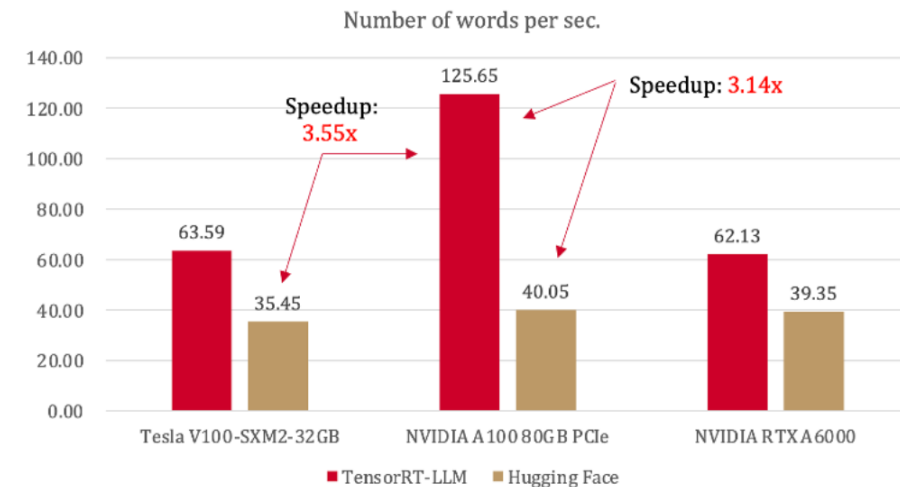
【2023 NCHC, NVIDIA, OpenACC 黑客松】-人工智慧應用加速成果

NCHC Speedrunning 團隊成員來自 國家高速網路與計算中心，將AI超大語言模型加速3倍！

* NVIDIA Mentors: Anthony Chang, Cliff Chiu.

國科會推出的臺灣版ChatGPT已經初見成效，不僅擁有70億參數的模型，還進入了公部門應用討論階段。這款稱為可信AI對話引擎（TAIDE）的模型是以繁體中文資料訓練而成，強調以臺灣文化為基底，具備臺灣特有的用語、價值觀和文化知識，能夠回答在地使用者的問題。

超大語言模型（LLM）具有強大的語言理解能力，但同時因為模型巨大，推論速度變成應用的挑戰之一，為了提供更便捷的服務，讓更多的使用者能夠利用這些廣泛的語言模型，團隊透過TensorRT-LLM對訓練過的模型進行優化，獲得3倍以上的加速效果。



benchmark

TensorRT-LLM 真的非常好用，僅利用軟體優化，竟然就把同樣的LLM模型加速3倍！迫不及待測試H100，預期會有更多的加速效果。

— 國網中心NCHC Speedrunning 團隊

更多資訊請看：

<https://github.com/nqobu/nvidia/raw/main/20231207/Team12.pdf>



Program Benefits:

- 550+ exclusive SDKs and models
- GPU-optimized software, model scripts, and containerized apps
- Early access programs

- Research papers, technical documentation, webinars, blogs, and news
- Technical training and certification opportunities
- 1,000s of technical sessions from industry events On-Demand

- NVIDIA developer forums
- Exclusive meetups, hackathons, and events

- Join NVIDIA Developer program now, you will get one NVIDIA Training



8/6~7 NCHC End-to-End LLM Bootcamp Feedback Survey

Feedback Survey

<https://forms.office.com/r/F9eAqgv1Wy>

Your feedback is valuable to us! Please take a moment to share your thoughts on this event. Your input will help us enhance future events. Thank you for participating!

