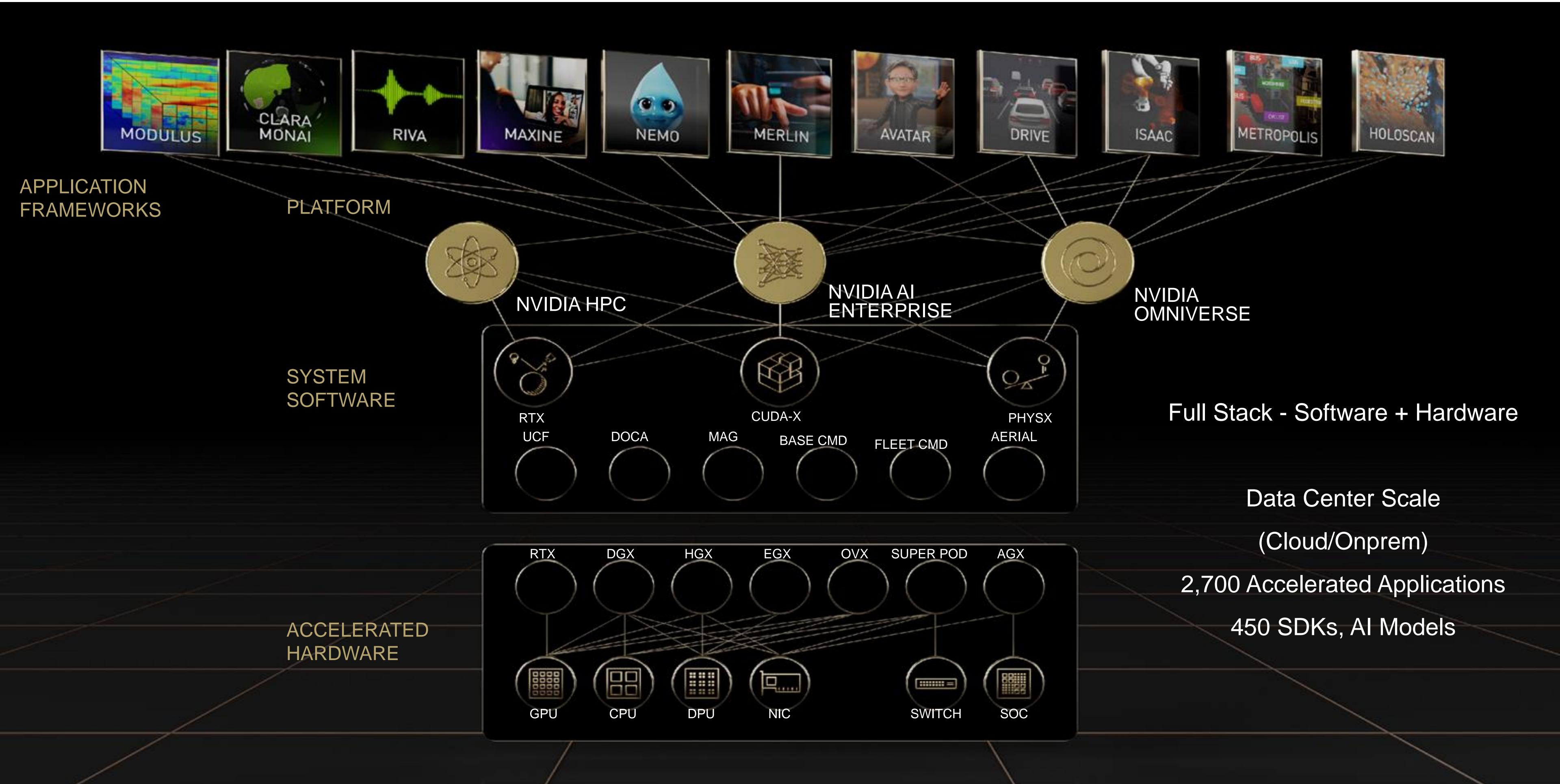


NVIDIA AI LEADER FOR LLM/GENERATIVE AI



WHY LLMs/GENERATIVE AI in Capital Markets

Used in Systematic Trading/Discretionary Trading

McKinsey reports - Advanced analytics in asset management beyond the buzz, Generative AI is here to change biz

Problem statement - Staying on Top of Market

Results and Consequences

Industry Needs & Solutions

- Extremely Volatile Market
- Market signals are viral Behavioral finance is hard
- Unstructured potential is not tapped fully

- Lower Sharpe -> Redemptions
- Downside Risk Failures such as Credit Suisse, SVB, Banks, Melvin Capital HF (Game stop)
- Upside Unable to generate excess returns/beat market

Needs

- Continuous Real time exposure
- •Unstructured -> Alpha/Beta

Solutions

- NLP Older -> Newer accuracy
- Early Warning Indicators

Step 1 - Use Unstructured
Data - Alternative data
Alpha, Beta

Step 2 - Generate Investment/Trading Signals with LLMs

Step 3- Knowledge Metrics Aggregated by Ticker & Themes

Step 4- Downstream uses
- Investing/Trading Indices,
Systematic/Discretionary

Leverage Accelerated workloads in Capital Markets for you

One Stop Platform - Not only LLMs but use it with Quant Finance, ETL/ML, DL Algos

AI (Neural nets) -LLMs/Generative AI/others

Quant Finance Aka HPC Data Processing ETL/ML (Non neural nets)

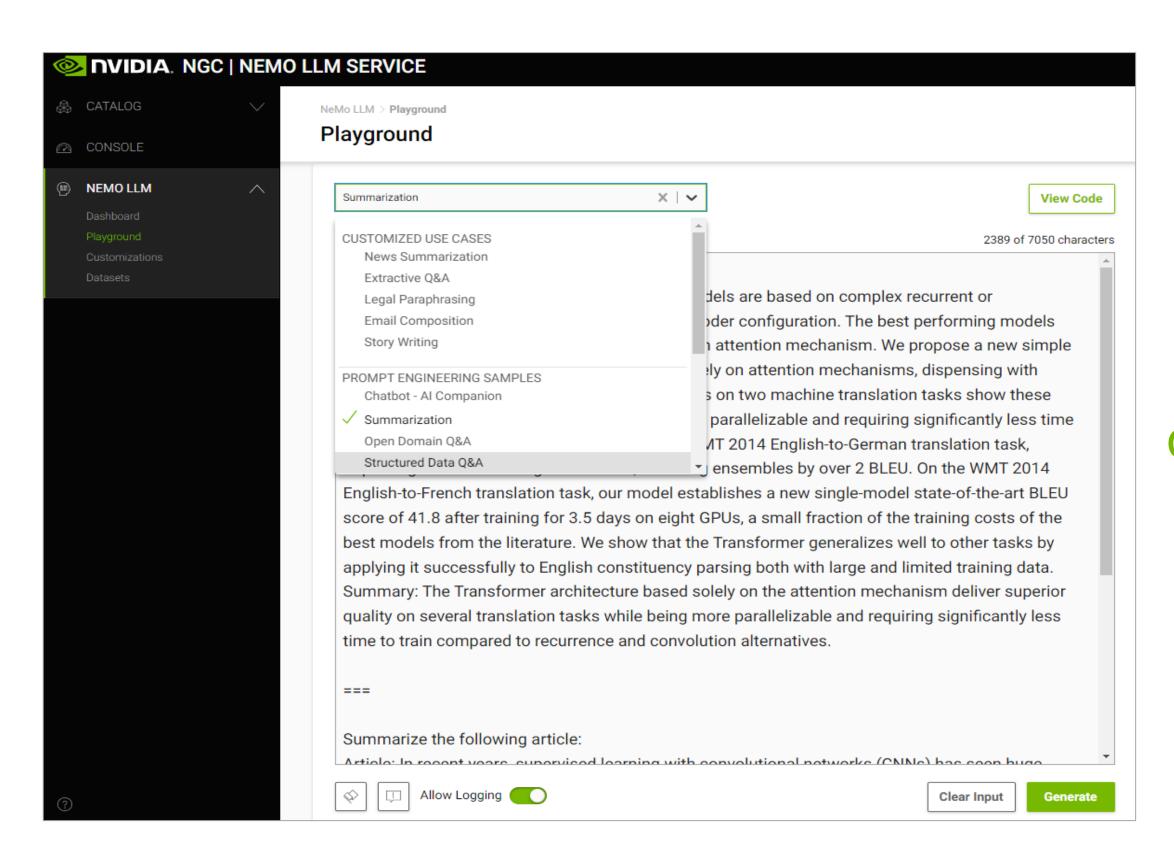
- Al Unstructured Data using NLP with LLMs, Other Systematic Trading Algos
- Framework -PyTorch/TensorFlow,
 NVIDIA NeMo LLM, NVIDIA RIVA
- Pricing, Risk (MC Sim, Margin, FRTB,CVA, SIMM, XVA) & Back testing
- Framework CUDA C/C++, Parallel Algorithms C++, NVIDIA Accelerated Python - RAPIDS, Open ACC
- Feature Engineering, Data Prep, & Data Science (e.g., XGBOOST)
- Framework NVIDIA Accelerated
 Python RAPIDS, Spark on GPU

<u>Forrester Wave™: Al Infrastructure, Q4 2021</u>- "NVIDIA's DNA is in every other Al infrastructure solution we evaluated. It's an understatement to say that NVIDIA GPUs are synonymous with Al infrastructure."

How to Get Started With LLMs/Generative Al at your firm

Generate your Al ROI

McKinsey Modelling Impact of AI - Front-runner companies could "Double their cash flow"



NVIDIA LLM Nemo Foundry
On DGX Cloud

aws Google Cloud

Microsoft CLOUD
Infrastructure

NVIDIA LLM Nemo – Prompt tuning, guard rails

Test/Deploy on Platform of choice







NLP - News, Docs

Sentiment & Q/A

Alt Data

LLM/Generative -> AI ROI

- Step 1: Workshops to prioritize,
 & define the problem statement,
 success criteria in
 LLM/Generative AI (2-4 hours)
- Step 2: Leverage NVIDIA LLM NeMo Foundry on cloud to prototype with your proprietary data (2-3 weeks)
- Step 3: Test & document (1 weeks)
- Step 4: Present findings & ROI to key stakeholders (1 week)

What Would an LLM/Gen Al Journey Look Like?



