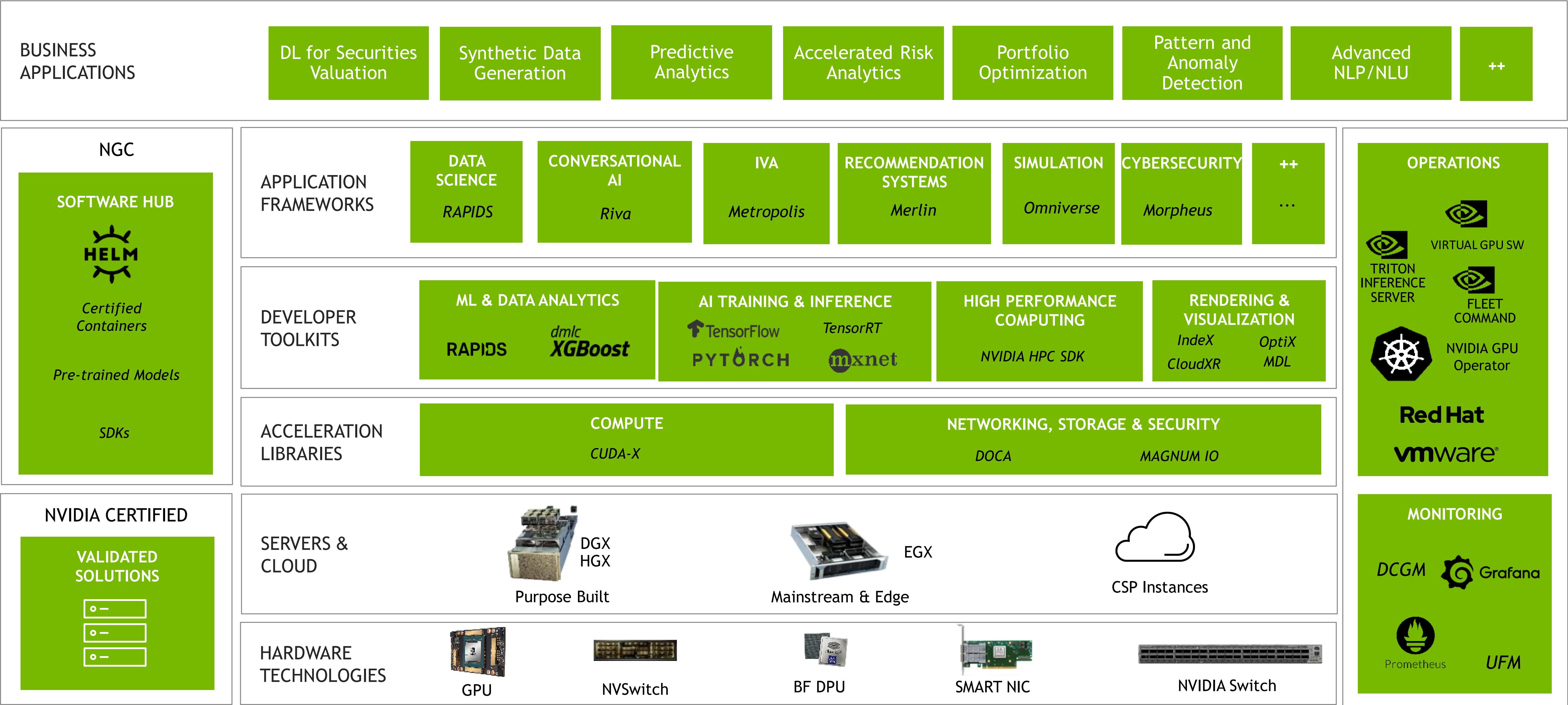# SCALABLE PLATFORM FOR HPC AND INOVATION IN AI
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# NVIDIA DATACENTER PLATFORM
## Scalable Platform for HPC and Inovation in AI

**BUSINESS APPLICATIONS**

| DL for Securities Valuation | Synthetic Data Generation | Predictive Analytics | Accelerated Risk Analytics | Portfolio Optimization | Pattern and Anomaly Detection | Advanced NLP/NLU | ++ |

**NGC**

**SOFTWARE HUB**

HELM

*Certified Containers*

*Pre-trained Models*

*SDKs*

**APPLICATION FRAMEWORKS**

| DATA SCIENCE *RAPIDS* | CONVERSATIONAL AI *Riva* | IVA *Metropolis* | RECOMMENDATION SYSTEMS *Merlin* | SIMULATION *Omniverse* | CYBERSECURITY *Morpheus* | ++ … |

**DEVELOPER TOOLKITS**

| ML & DATA ANALYTICS RAPIDS dmlc XGBoost | AI TRAINING & INFERENCE TensorFlow TensorRT PYTORCH mxnet | HIGH PERFORMANCE COMPUTING NVIDIA HPC SDK | RENDERING & VISUALIZATION *IndeX* *OptiX* *CloudXR* *MDL* |

**ACCELERATION LIBRARIES**

| COMPUTE *CUDA-X* | NETWORKING, STORAGE & SECURITY *DOCA* *MAGNUM IO* |

**OPERATIONS**

VIRTUAL GPU SW

TRITON INFERENCE SERVER

FLEET COMMAND

NVIDIA GPU Operator

Red Hat

vmware

**NVIDIA CERTIFIED**

**VALIDATED SOLUTIONS**

**SERVERS & CLOUD**

DGX HGX — Purpose Built

EGX — Mainstream & Edge

CSP Instances

**HARDWARE TECHNOLOGIES**

GPU    NVSwitch    BF DPU    SMART NIC    NVIDIA Switch

**MONITORING**

*DCGM*    Grafana

Prometheus    *UFM*

NVIDIA

# LEVERAGING THE NVIDIA PLATFORM
## GPU Accelerated computing has never been so accessible