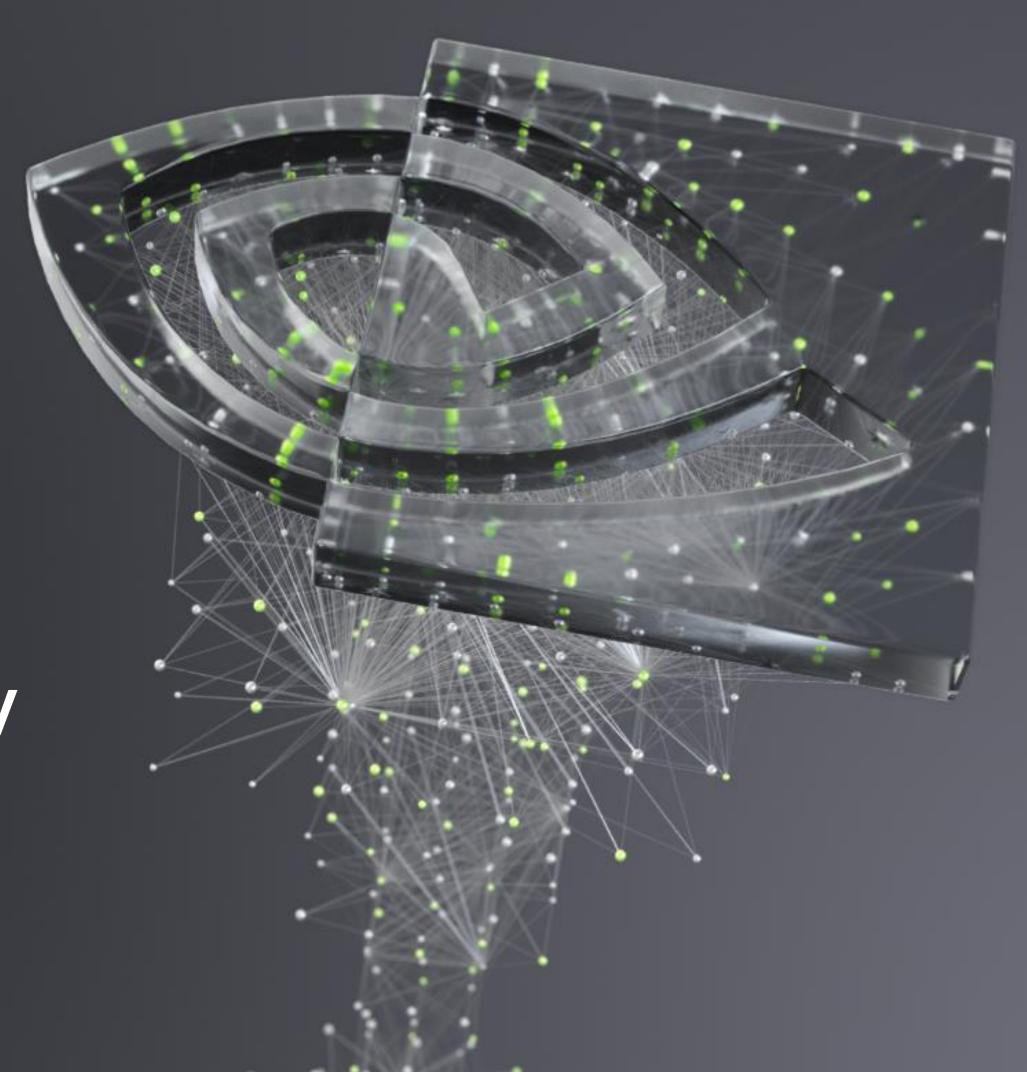
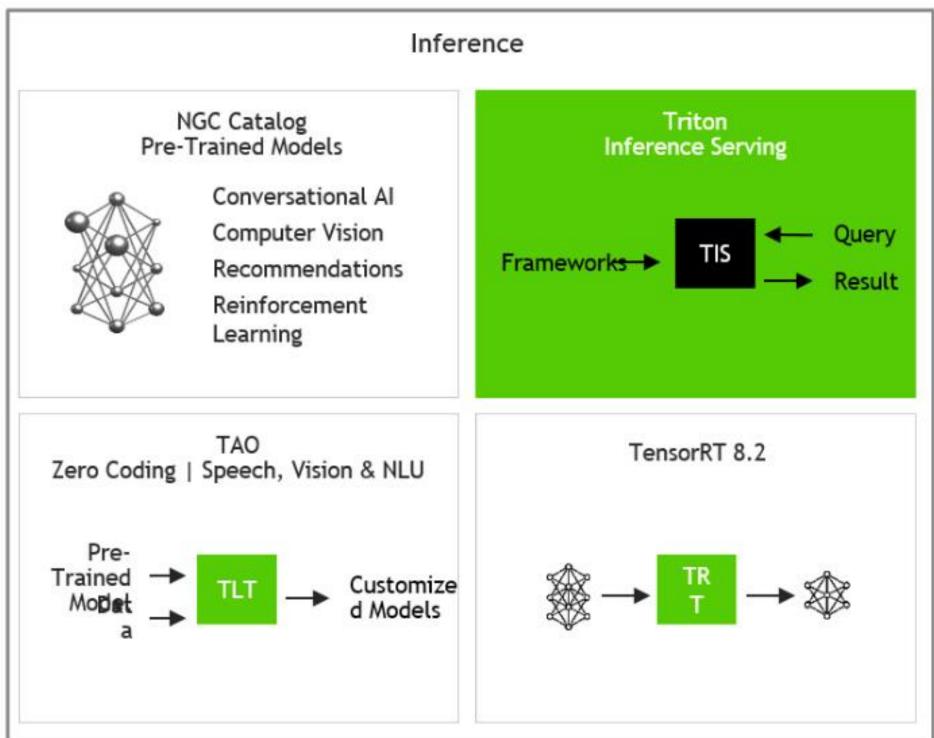


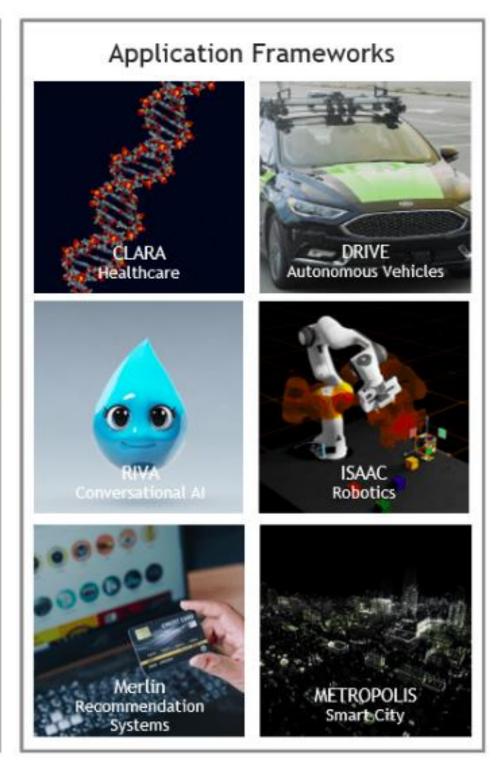
The NVIDIA Technology Stack for AI/ML



Pillars of NVIDIA AI Platform







NVIDIA NGC Catalog

AI FRAMEWORKS



MODELS

MODEL SCRIPTS

COLLECTIONS











PyTorch, TensorFlow...

TAO, TensorRT, Triton...

BERT, Transformer...

Jupyter Notebooks

Computer Vision, Speech...



Computer Vision



Traffic Analysis



Gesture Recognition



Medical Imaging

Conversational Al



Chat bots



Translation



Music composition

Recommendation



Page rankings



Personalized shopping

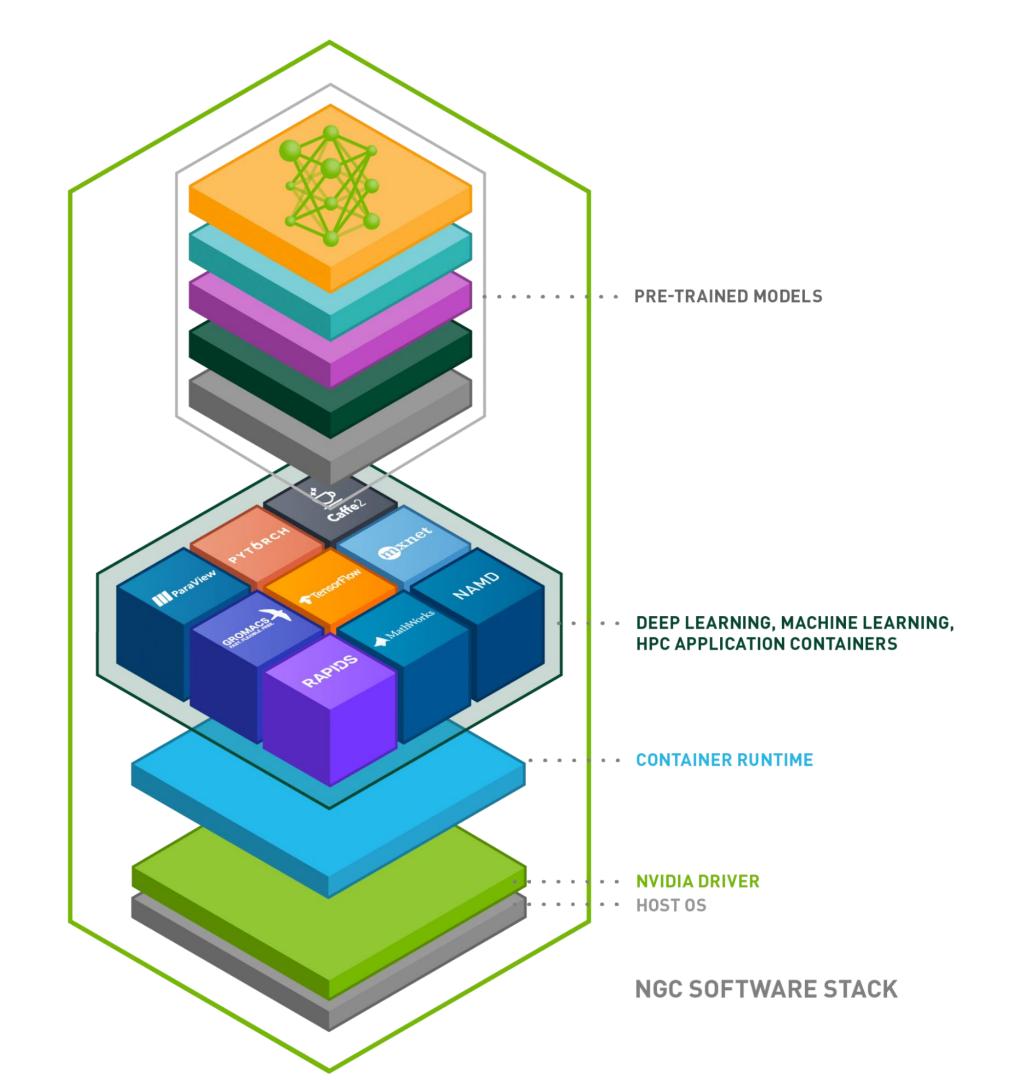


Music & movie suggestions





NVIDIA NGC

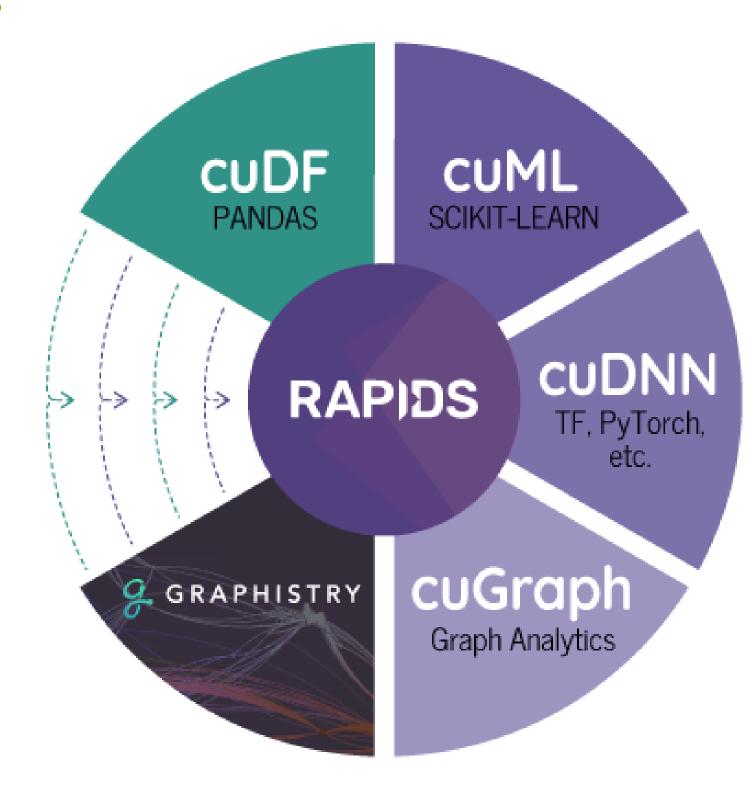




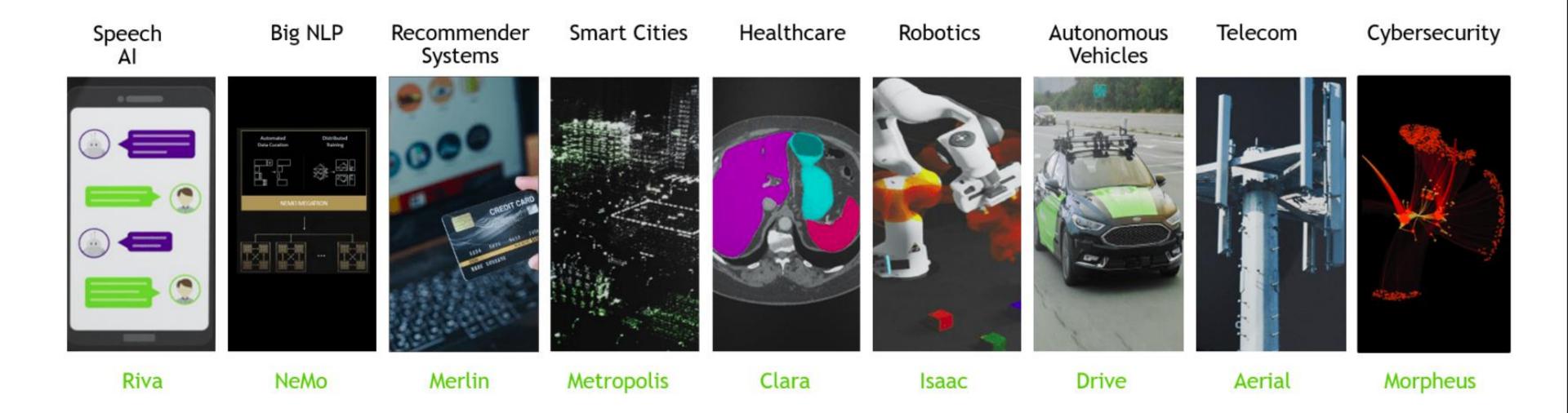
NVIDIA RAPIDS

Data Science on GPUs

- Supports end to end pipeline:
 - Data exploration
 - Data preparation
 - Traditional ML Algorithms
 - Graph Algorithms
 - Parallel computing, HPC etc
- URL <u>rapids.ai</u>



NVIDIA APPLICATION FRAMEWORKS



Desktop Development



Data Center Solutions



Accelerated Edge



Supercomputers



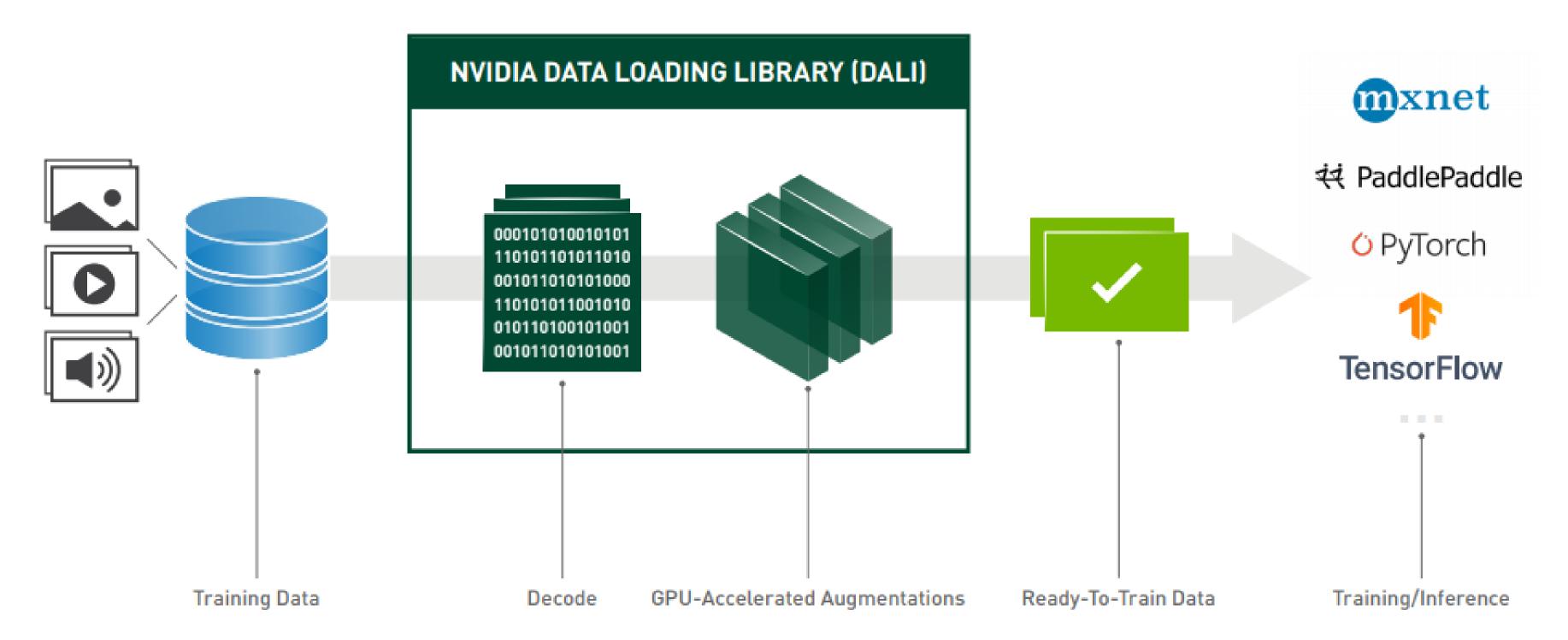
GPU-Accelerated Cloud





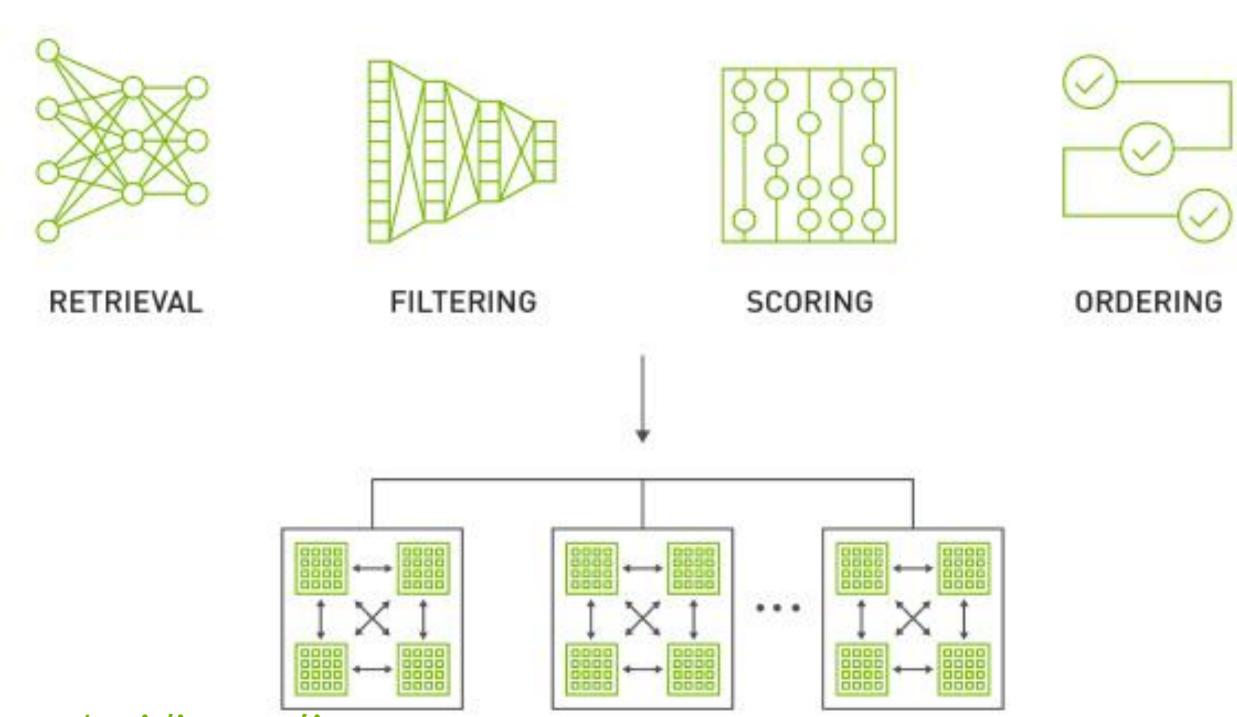
NVIDIA DALI

High Performance Data Loading Library



NVIDIA Merlin

High performance recommender system builder

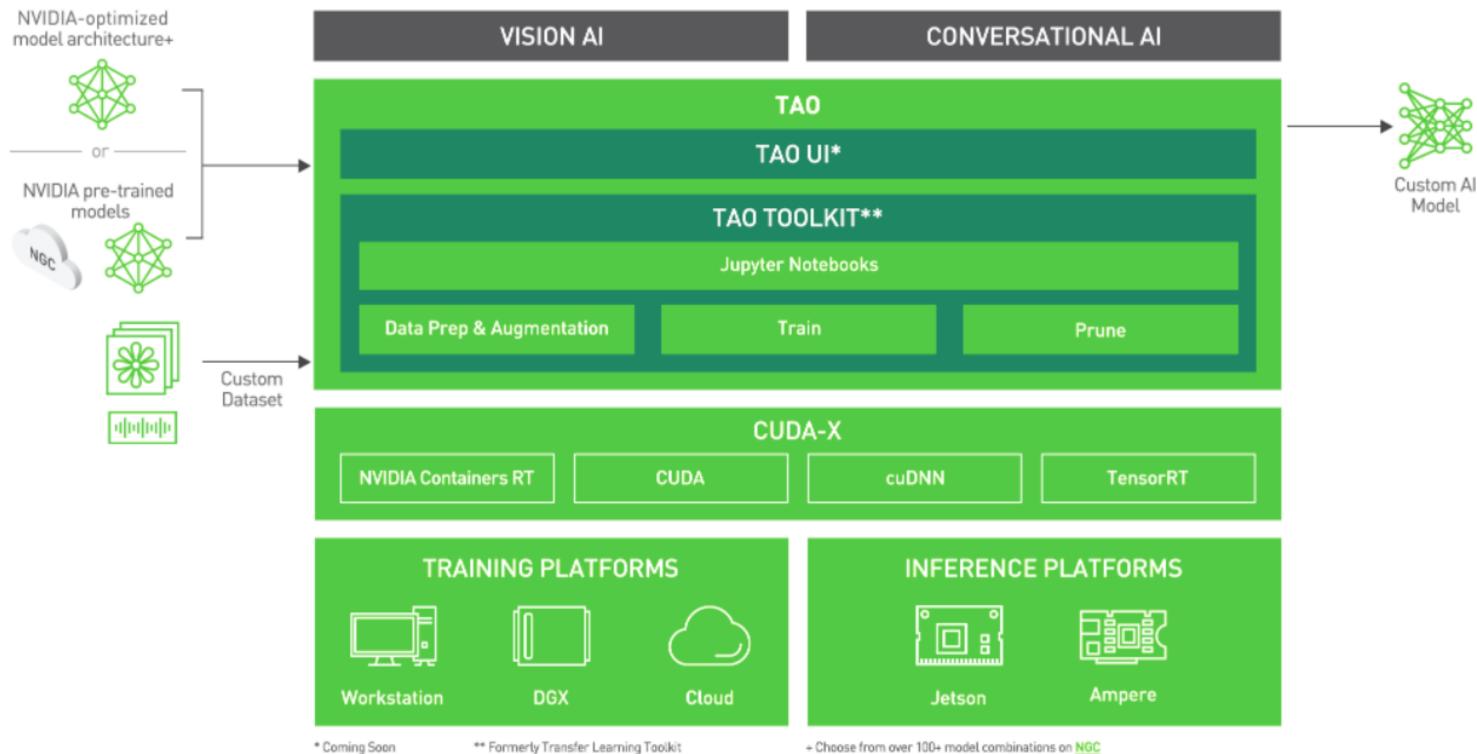


URL -

developer.nvidia.com/nvidia-merlin

NVIDIA TAO

TAO - Train, Adapt and Optimize. Transfer Learning Toolkit

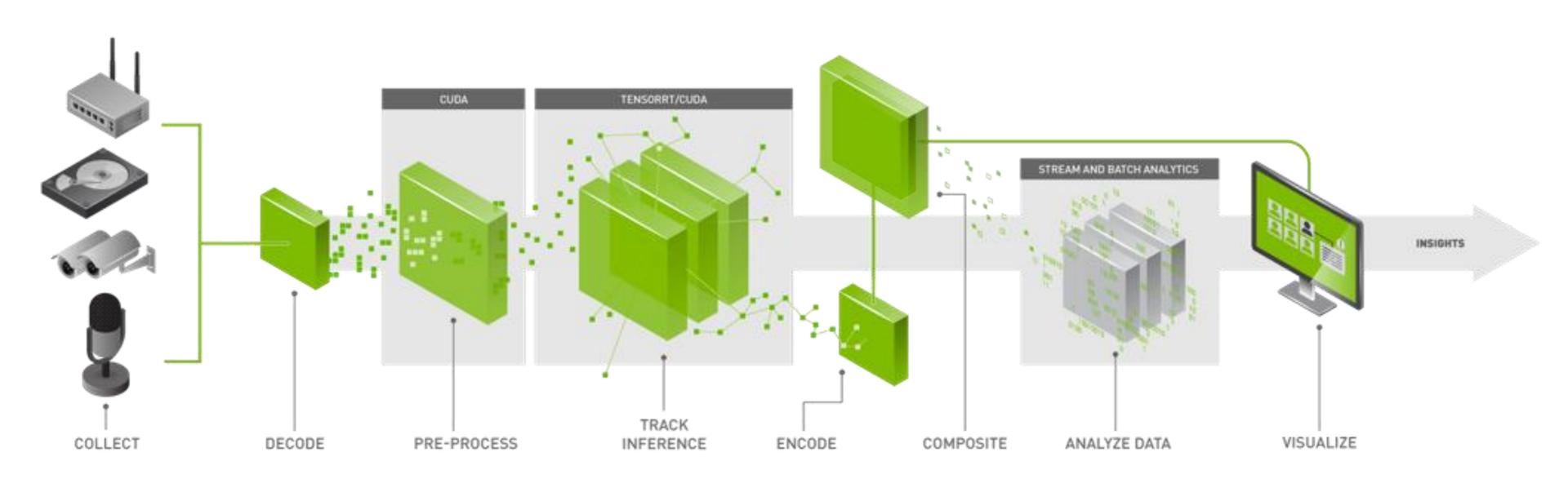




🕪 NVIDIA.

NVIDIA Deepstream

Rapidly develop and deploy Vision AI applications and services



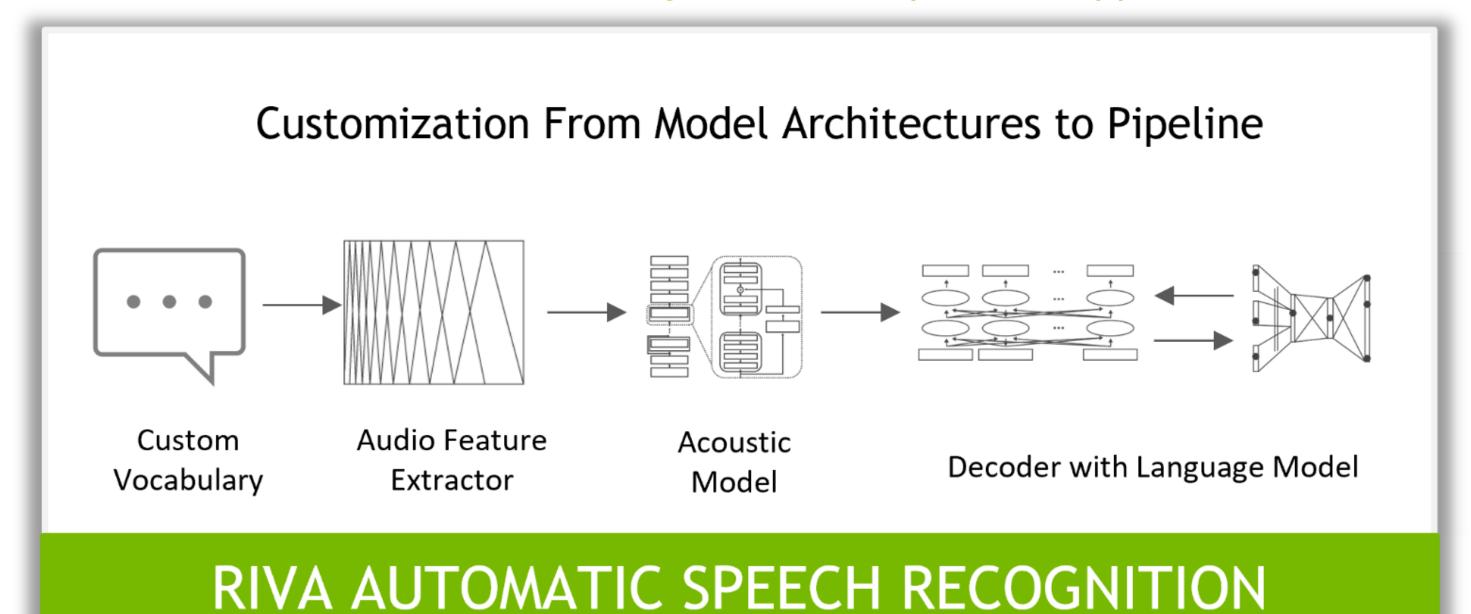
URL -

https://developer.nvidia.com/deepstream-sdk



NVIDIA RIVA

A GPU-accelerated SDK for building word class Speech AI applications



URL -

https://developer.nvidia.com/deepstream-sdk



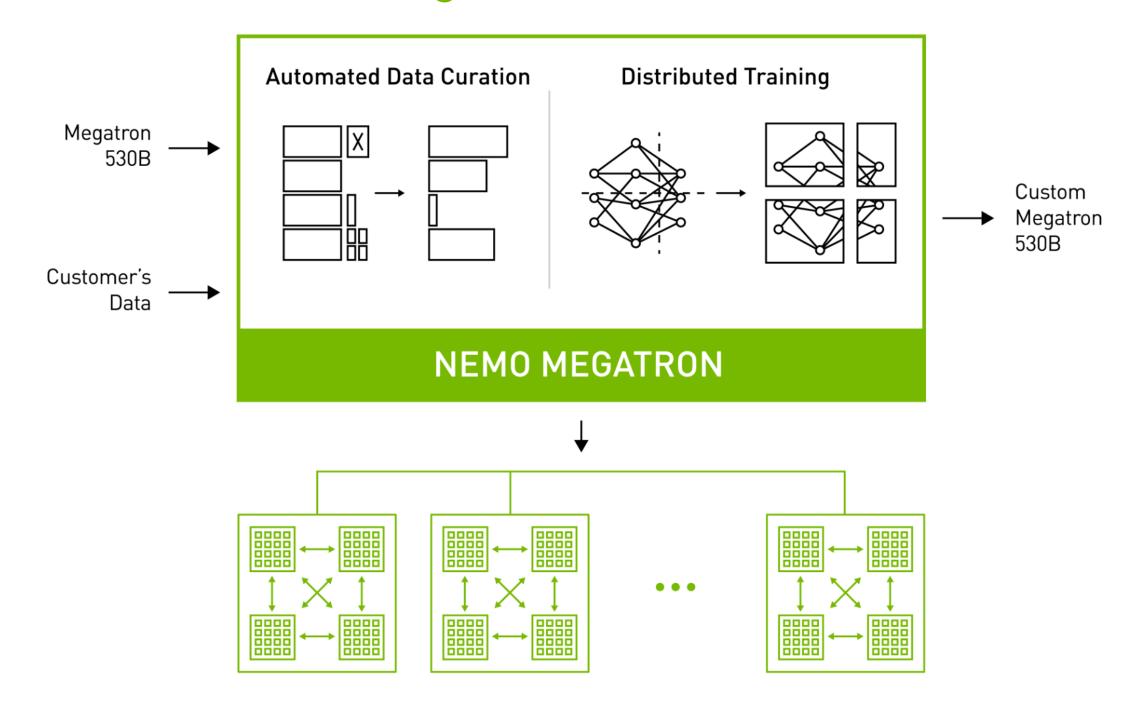
Speech +

Word Boosting

Text

NVIDIA NEMO

A GPU-accelerated SDK for building state-of-the-art conversational AI and NLP models.



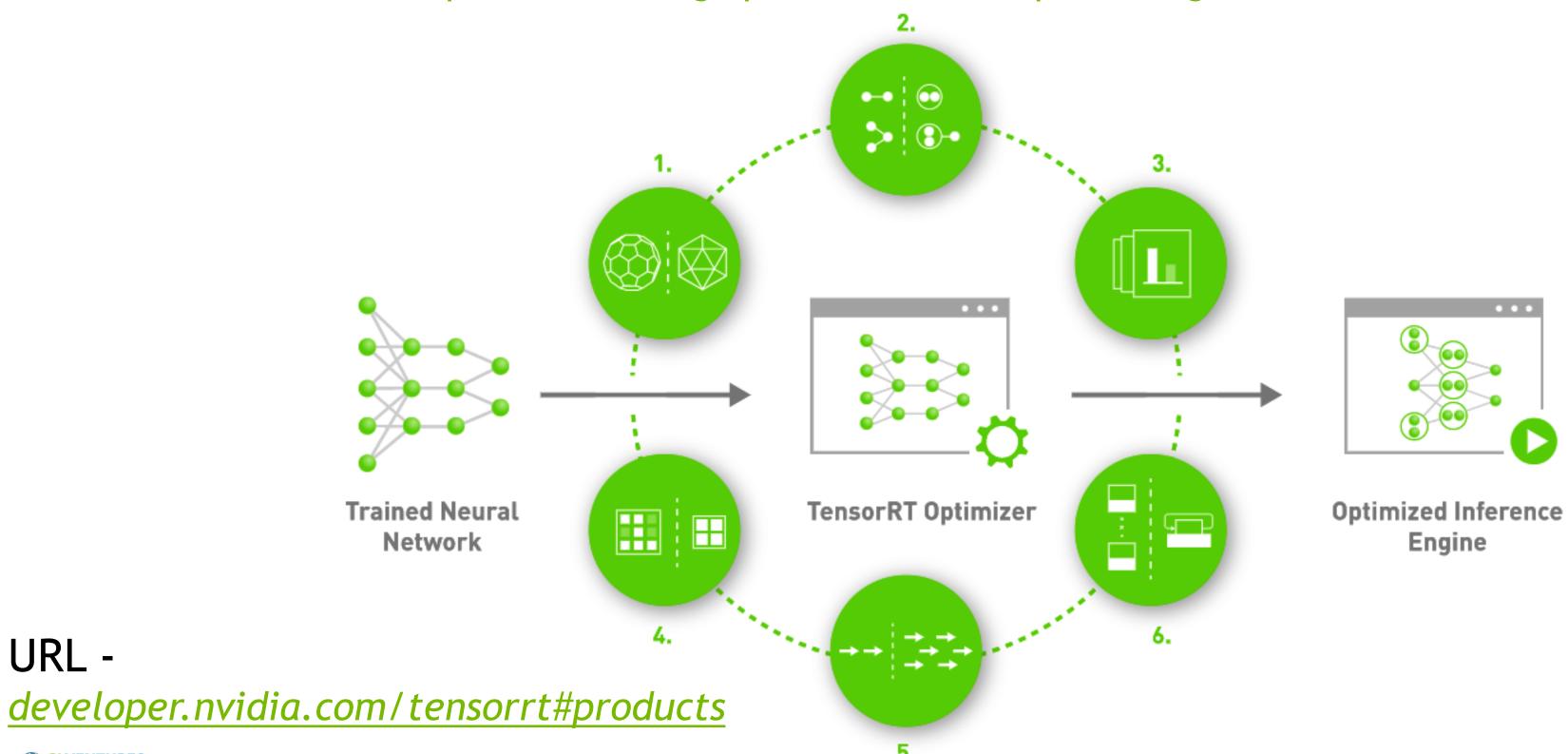
URL -

https://developer.nvidia.com/nvidia-nemo



NVIDIA TensorRT

Optimizer for high performance deep learning inference

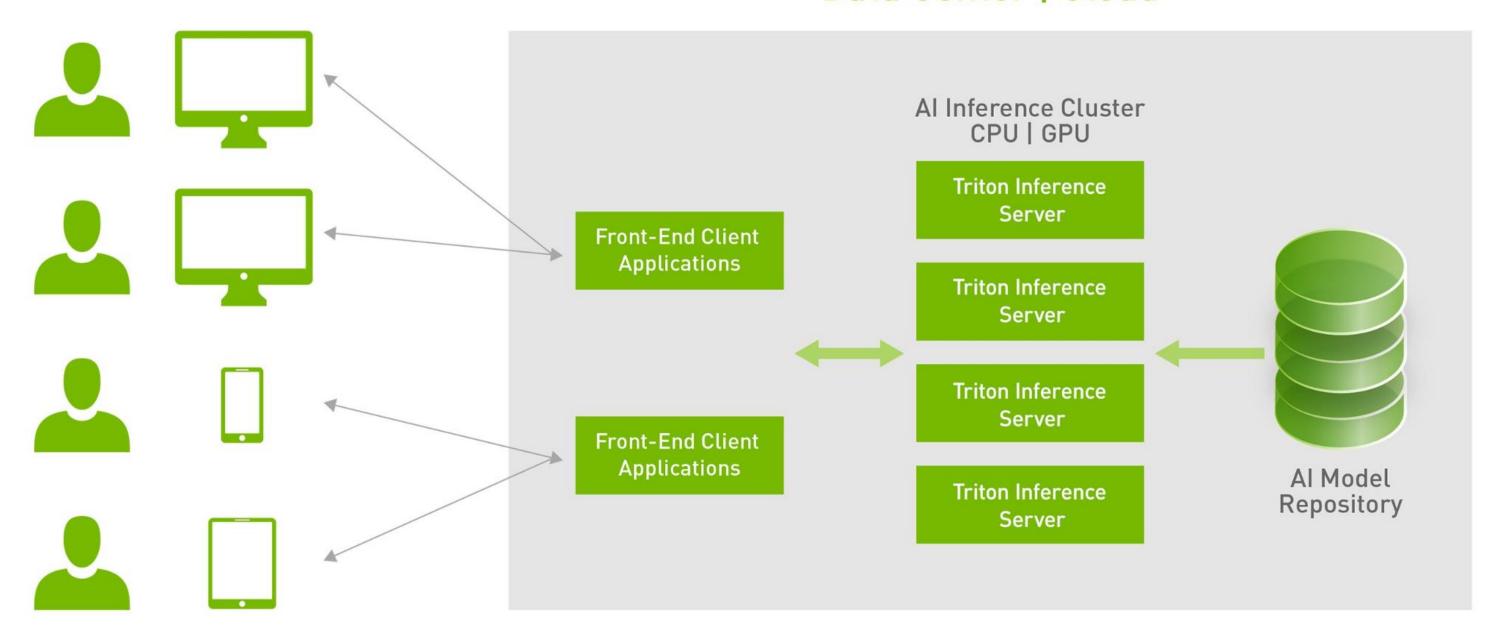


URL -

NVIDIA Triton Inference Server

Fast and Scalable AI Deployment For Any AI Application

Data Center | Cloud



URL -

https://developer.nvidia.com/nvidia-triton-inference-server

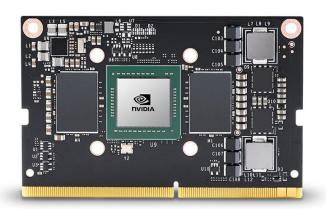


NVIDIA Edge Inference Devices

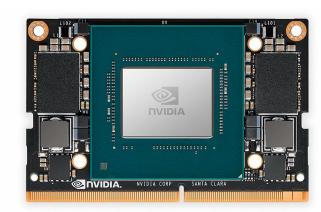
High Performance Embedded Al Inference



Jetson Nano (472 GFLOPS, 128 Maxwell Cores)



Jetson TX2 (1.33 TFLOPS, 256 Pascal Cores)



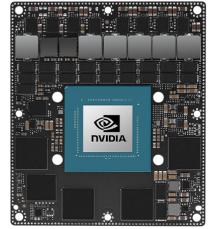
Jetson Xavier NX (21 TOPS, 384 Volta + 48 Tensor Cores)



Jetson AGX Xavier (32 TOPS, 512 Volta + 64 Tensor Cores)



Jetson Orin NX (100 TOPS, 1024 Ampere + 32 Tensor Cores)



Jetson AGX Orin (275 TOPS, 2048 Ampere + 64 Tensor Cores)

URL -

https://www.nvidia.com/en-in/autonomous-machines/embedded-systems/



