



HPE Discover 2025

June 24th, 2025, 11:30 AM PST

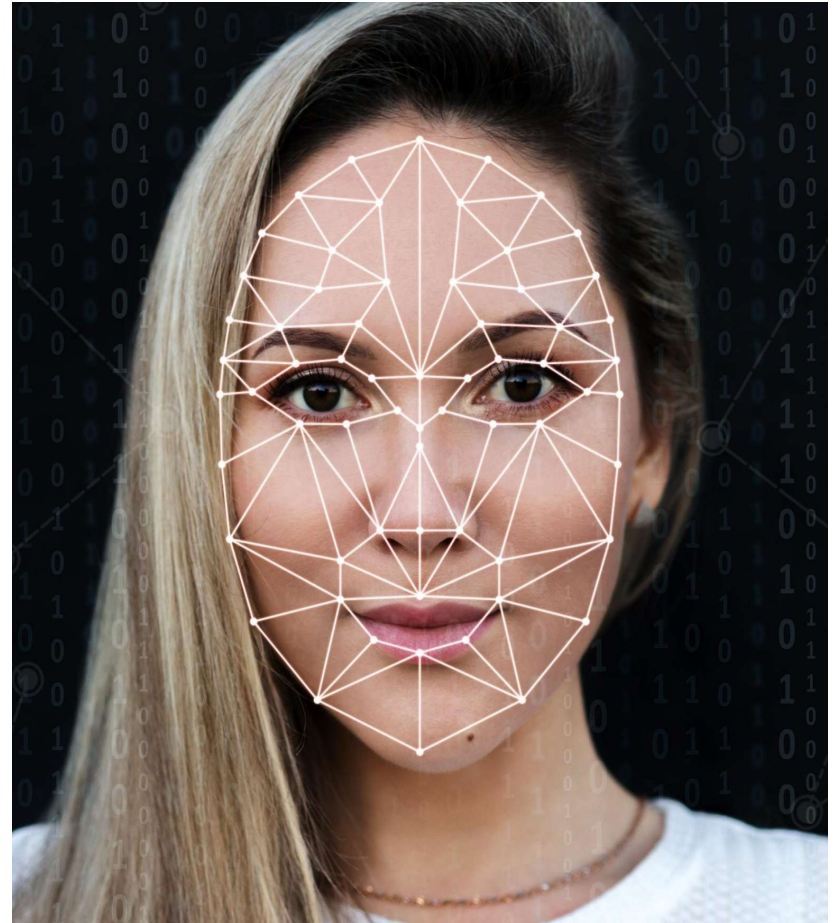
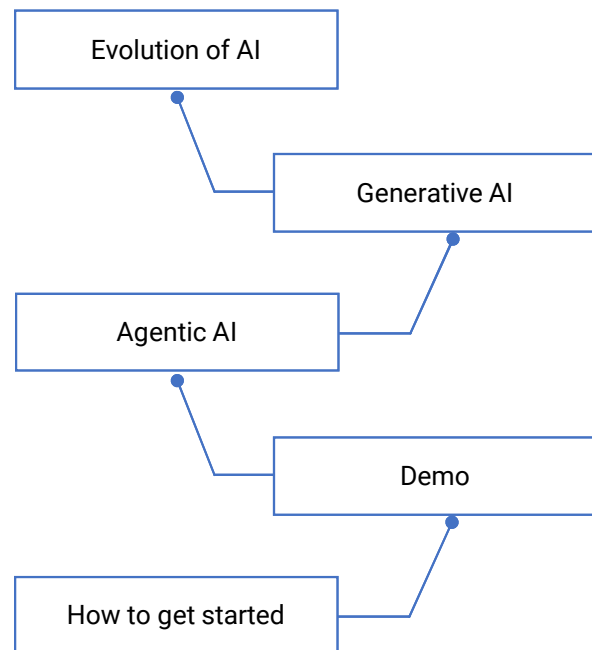
Session: T2075

Frederic Van Haren

Agentic AI: A Paradigm Shift Beyond Traditional AI

Exploring advancements and implications of Agentic AI

Agenda





Frederic Van Haren
CTO

Name: HighFens Inc. <https://highfens.com>

Founded: April 2016

Description:

- Consulting & Services
- AI & Gen AI Solutions

Customers:

- NDA for Vendors (HW & SW)
- Enterprises (End-users)



HighFens Inc. was founded to guide and assist customers in implementing innovative and disruptive technology for the digital world.



The team at HighFens has been working with Big Data, HPC, and AI for over 15 years. We have a track record of introducing innovative solutions to solve complex problems at scale.



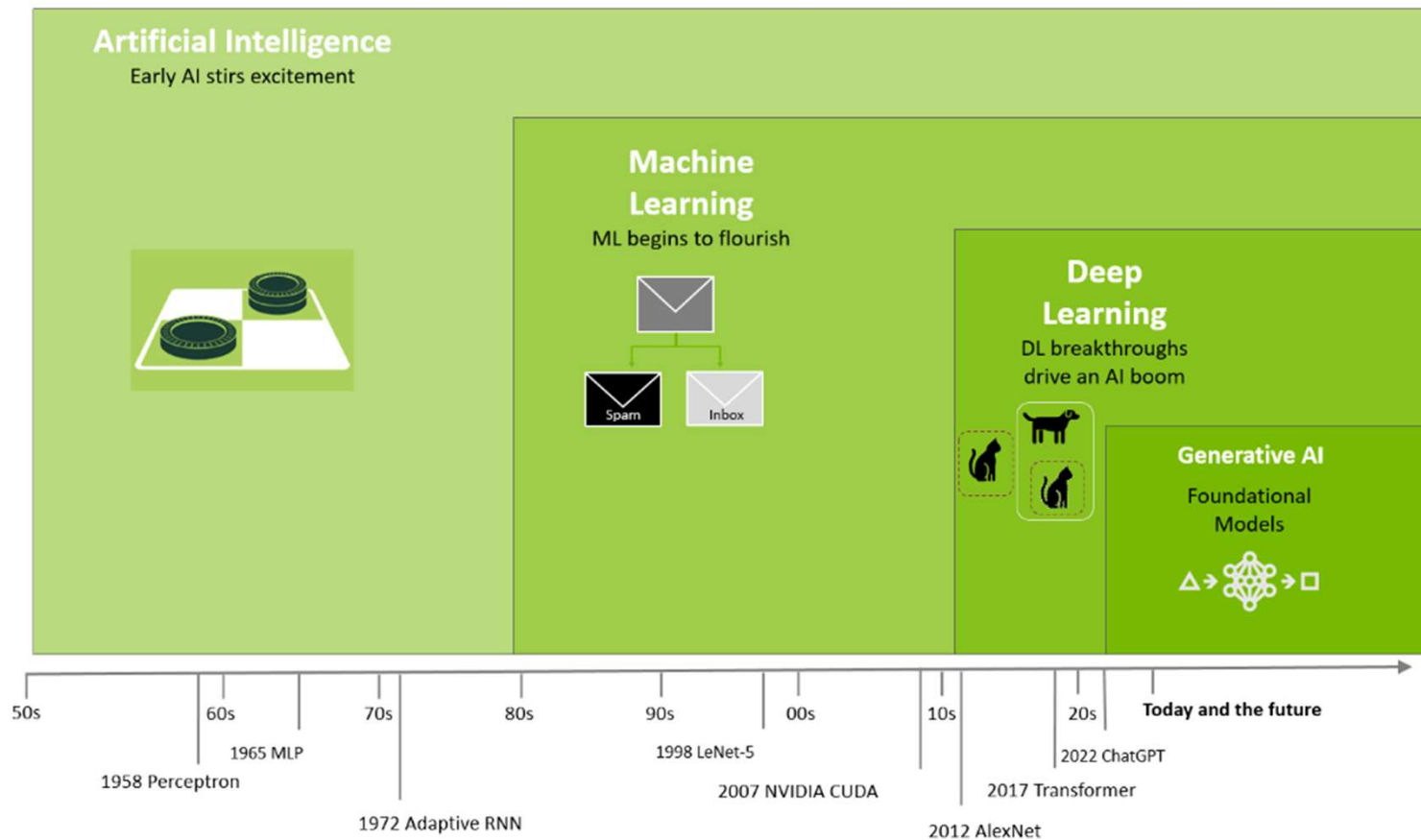
Turn our experience and knowledge to your advantage and achieve your business goals. AI solutions that fit your need based on a scalable & reliable eco-system.

Evolution of AI

AI / ML / DL / Generative AI

The Evolution of Artificial Intelligence

Ability to learn without being explicitly programmed

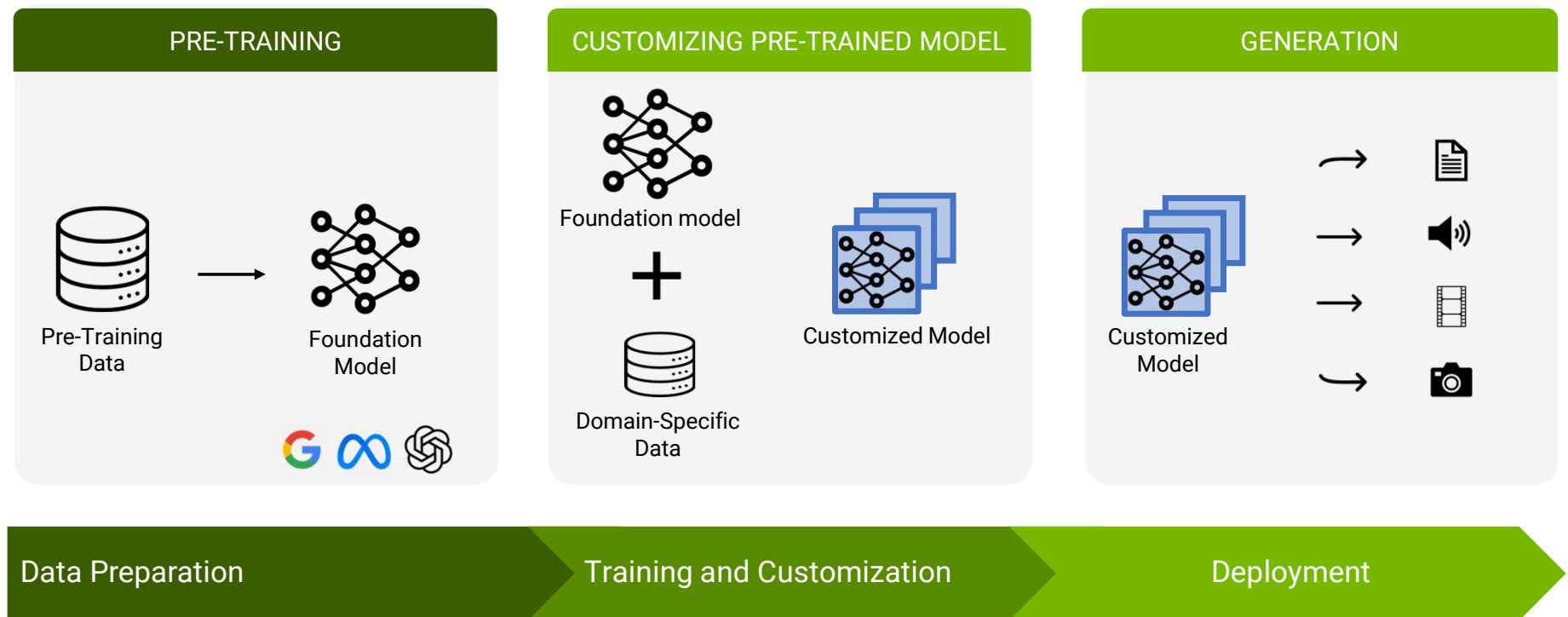


Generative AI

Generative AI in Motion: Real-Time Data for Dynamic Intelligence

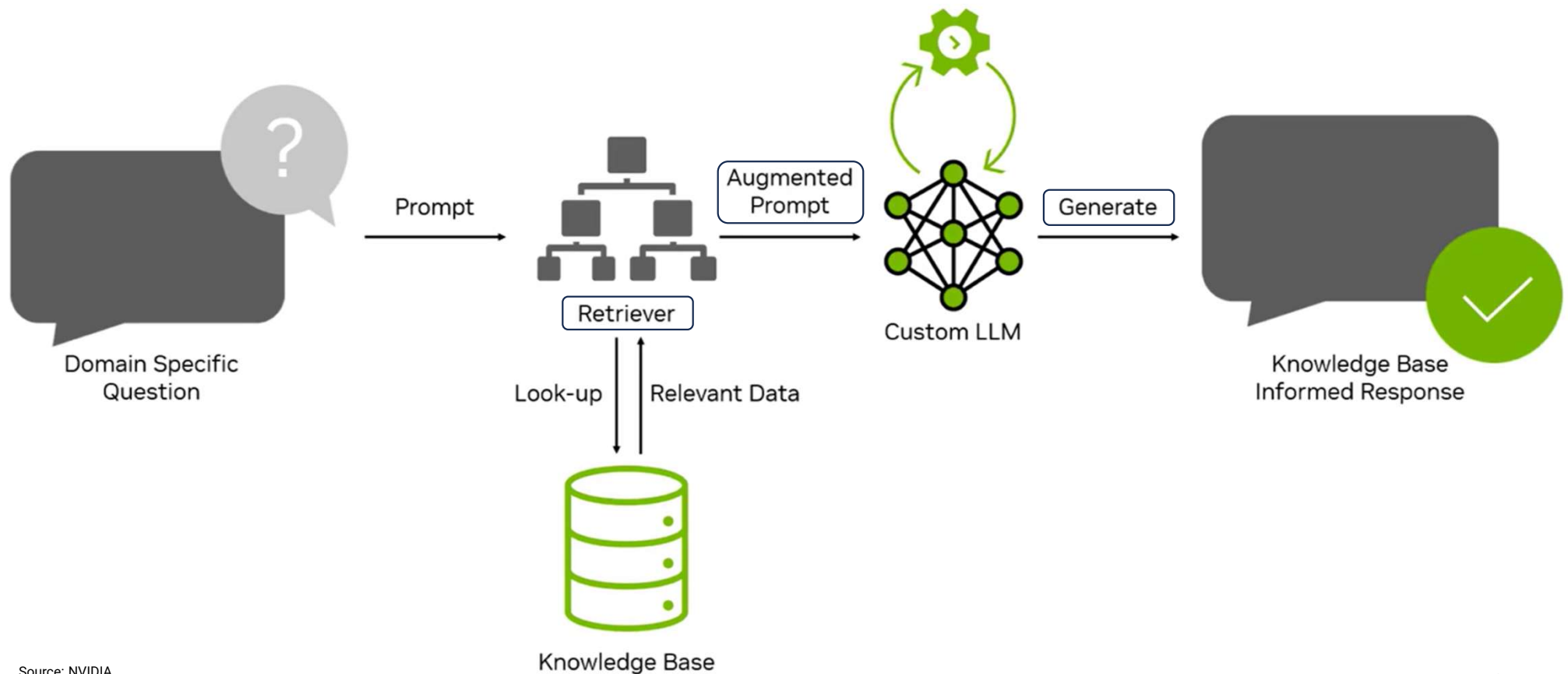
Generative AI

Pre-trained models are the foundation for Enterprise Gen AI solutions



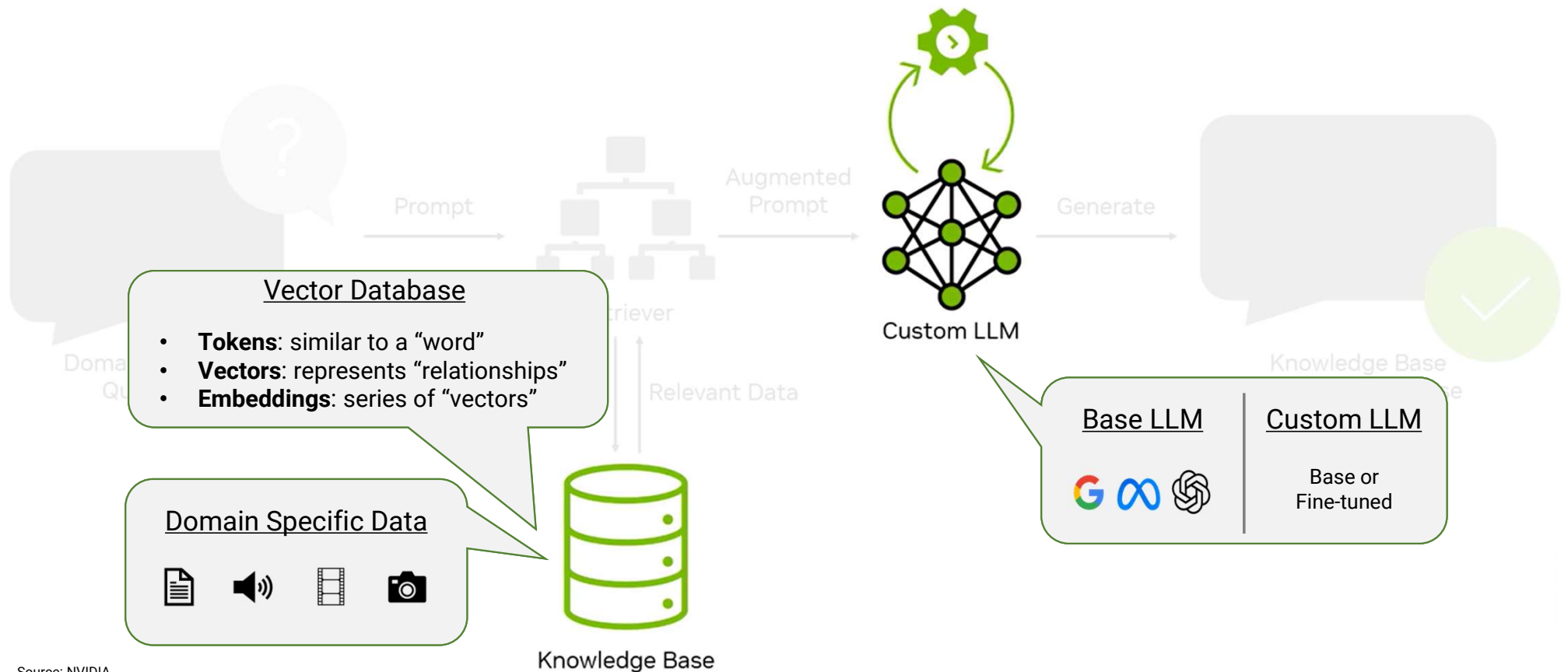
Retrieval-Augmented-Generation (RAG)

Enhance an LLM with a specific domain or knowledge base WITHOUT retraining



Retrieval-Augmented-Generation (RAG)

Enhance an LLM with a specific domain or knowledge base WITHOUT retraining



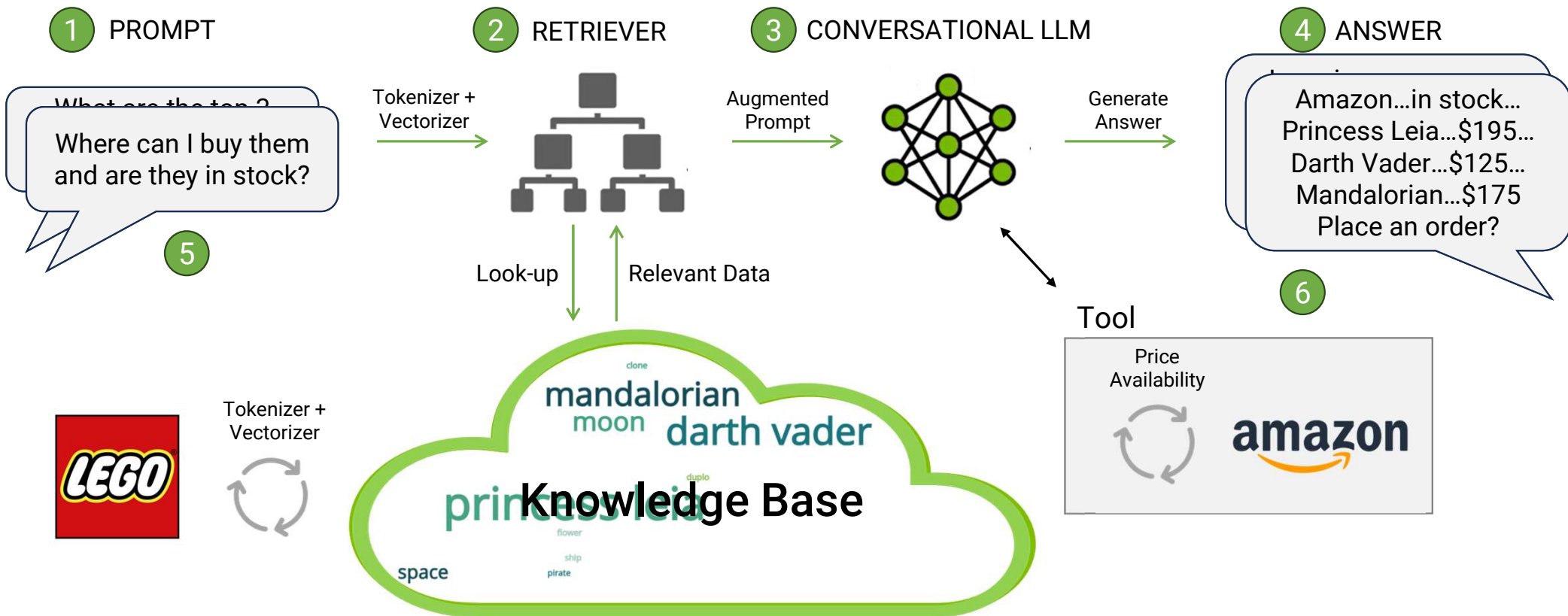
Conversational AI for Lego sets

“We are a LEGO user group offering instant access to search functions, product details, stock status, and pricing information.”



Conversational AI for Lego sets

Complete Lego catalog (latest), where to buy, cost, and availability

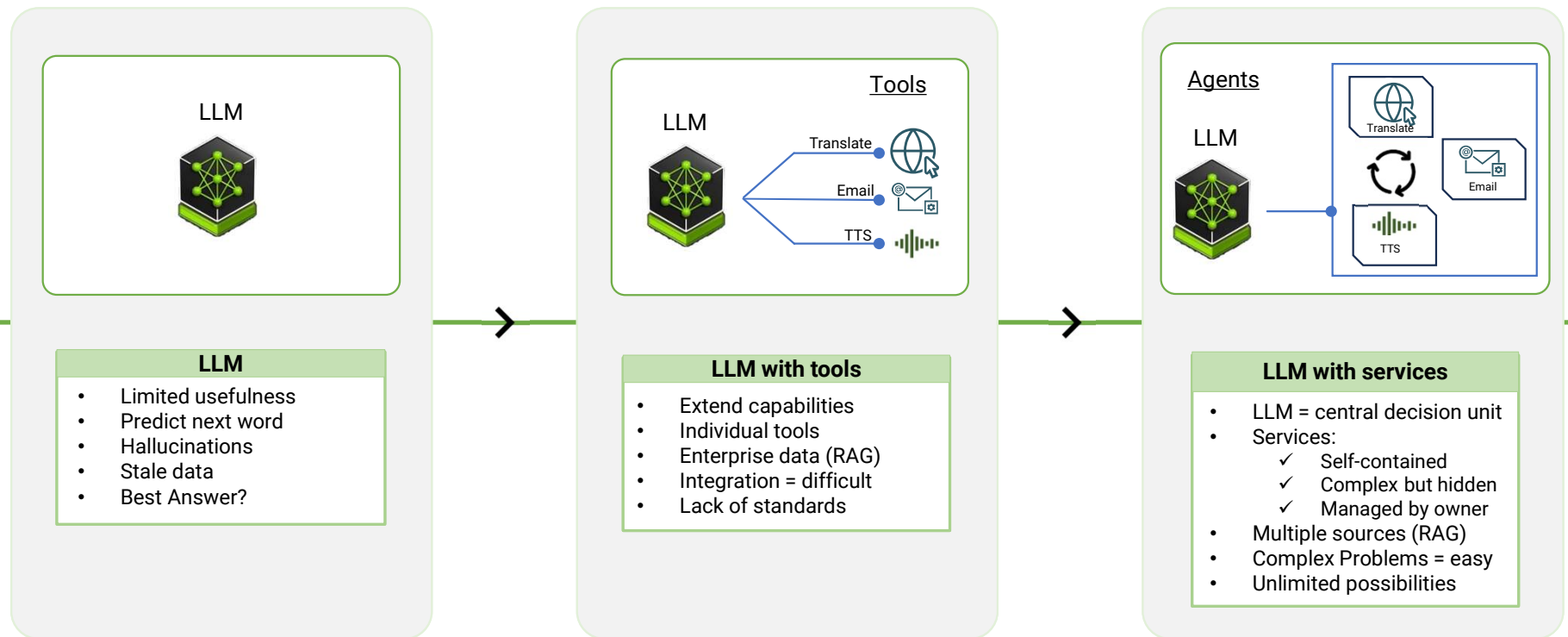


Agentic AI

A transformative advancement beyond traditional AI paradigms

What's next for Generative AI?

AI That Acts: The Business Case for Agentic Intelligence



Agentic AI – Definition

Turn Data into Knowledge & Knowledge into Action

Uses sophisticated **reasoning** and iterative **planning** to solve **complex, multi-step** problems **autonomously**

Human-like
reasoning



Iterative
approach



Complex
Decision-making



Multi-step
problems

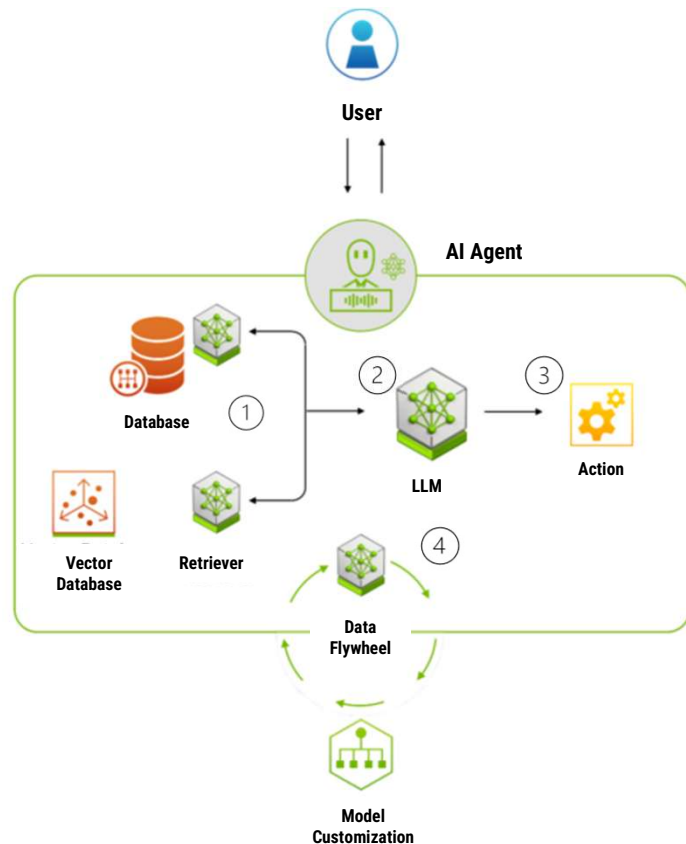


Autonomy
Adaptability



Agentic AI - Agent

Agents are the building blocks of Agentic AI solutions



1 Perceive

Collect & Process

- Feature extraction
- Object recognition
- Identify new elements

2 Reasoning (LLM)

Orchestration → solutions

- Content Creation
- Visual processing
- Recommenders
- Access to RAG - domain

3 Act

Tool integration (API)

- External Tools and SW
- Execute tasks
- Apply guard rails

4 Learn

Improve & enhance models

- Feedback loop
- Generated data = ingested
- Adapt and > effectiveness

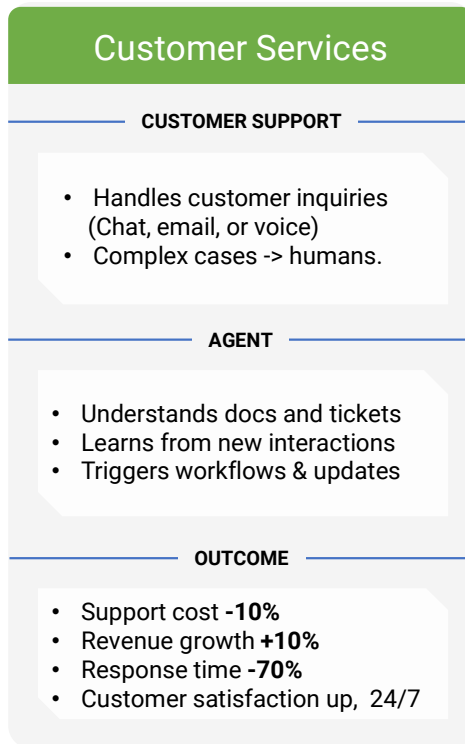
Agentic AI – Use Cases

Agentic AI is reshaping all industries through autonomous, intelligent action

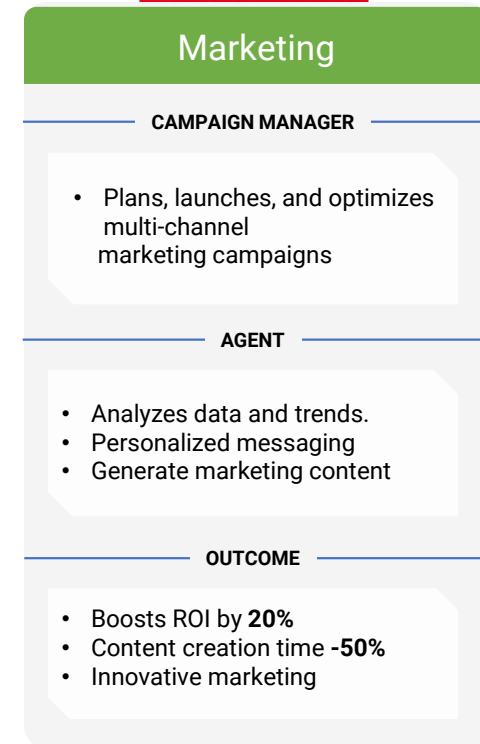
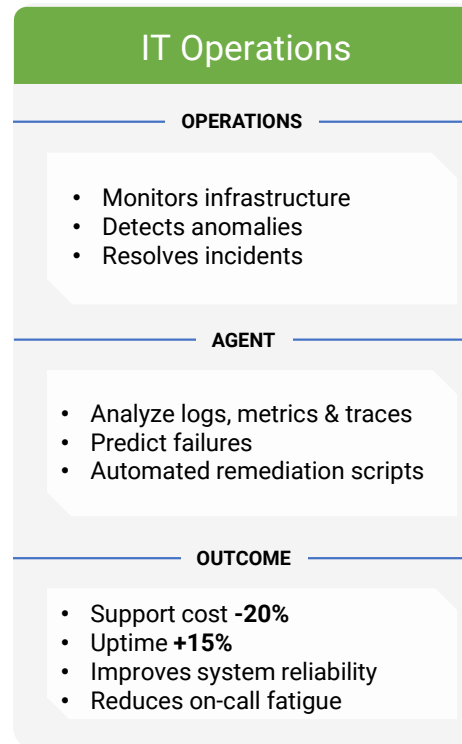
Agentic AI - Enterprise Use Cases

The Agentic Edge: Transformative Use Cases Across All Industries

BANK OF AMERICA

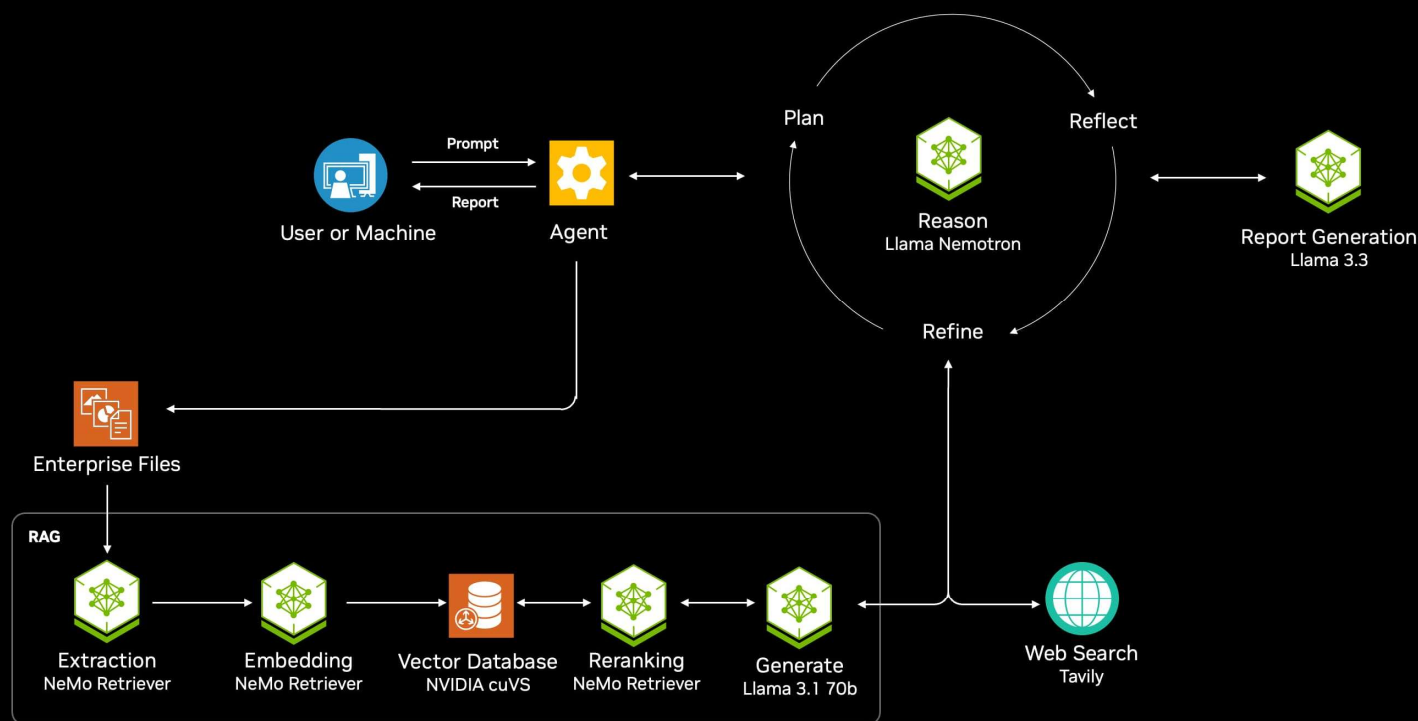


 **Microsoft**



Agentic AI - Personal Research Assistant

Reason, plan, reflect, and refine to produce high-quality reports with your data



Agentic AI - Digital Human

Create intelligent, interactive avatars for customer service across industries

Digital Human Configuration

Avatar



James - 3D Character

Meet James, interactive digital human, a communications expert powered by the selected knowledge base & animated b...



Aria - 2D Character

Meet Aria, an interactive digital human, an analyst with expertise in selected knowledge base & animated by...

Use Knowledge Base ⓘ



NVIDIA Product documentation

This Knowledge base contains documents about NVIDIA products.

Telco ORAN specifications

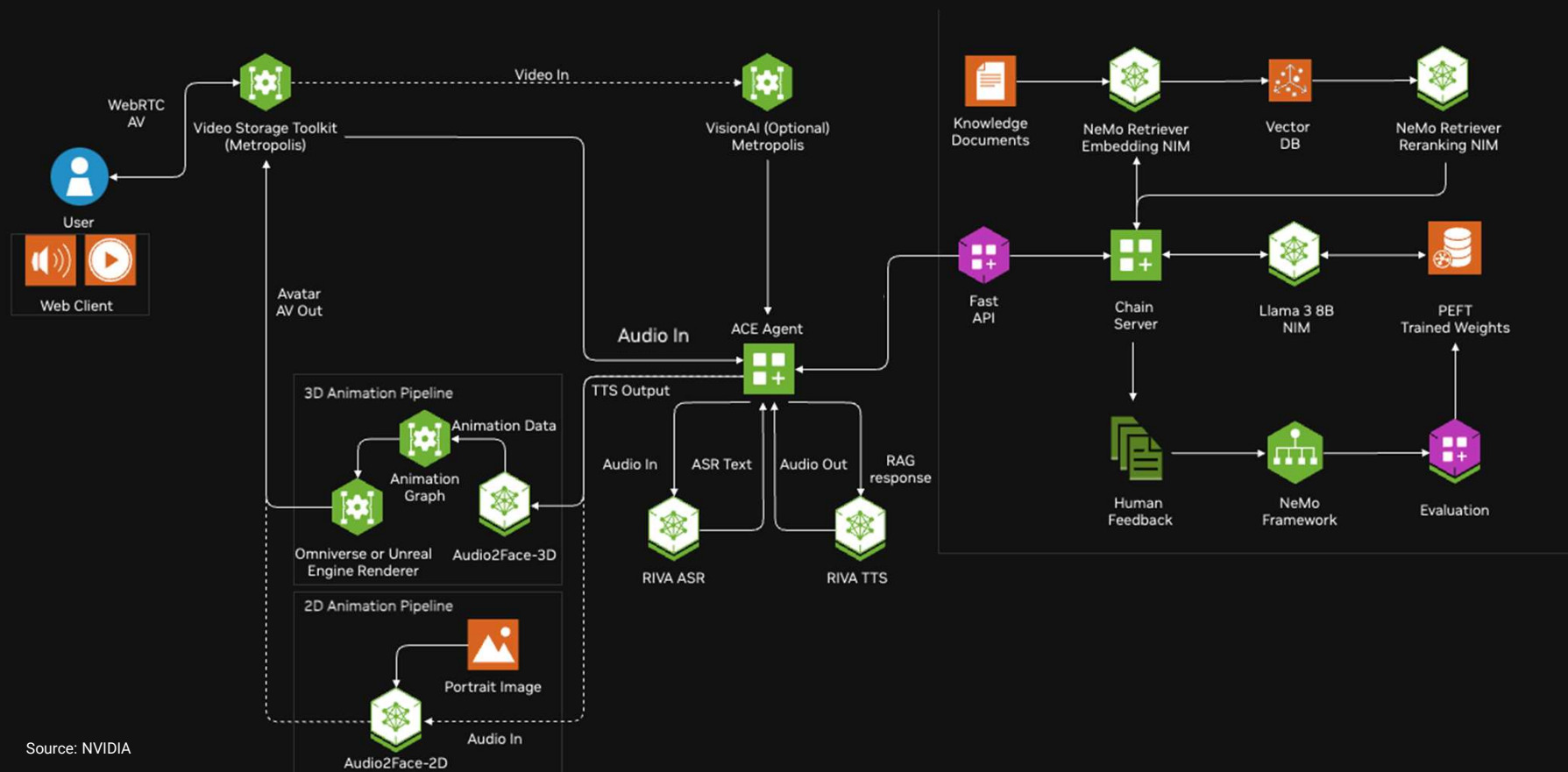
This knowledge base contains O-RAN specifications that aims to promote interoperability and openness in telecommunication standards.

Done



Agentic AI - Digital Human

Create intelligent, interactive avatars for customer service across industries



Agentic AI - Demo

Experience the future of autonomy—where AI doesn't just assist, it acts

Aria 2D



James 3D







How to get started?

Start small, think big—identify a high-impact use case, pilot with purpose, and scale with confidence

How to get started as an Enterprise?

Enabling Agentic AI in Your Enterprise

Steps to Agentic AI:

- Start with a clear strategy.
- Focus on high-impact use cases, build flexible infrastructure, and establish strong governance.
- Pilot with purpose, empower your teams, and scale based on real outcomes.

1. Identify Use Cases

- ☐ Measurable value - definition and scope

2. AI infrastructure

- ☐ Modular environment tailored for agents

3. Governance & Guardrails

- ☐ Define boundaries (early on!)

4. Feedback loop

- ☐ Run pilot programs with clear KPIs

5. Talent & Training

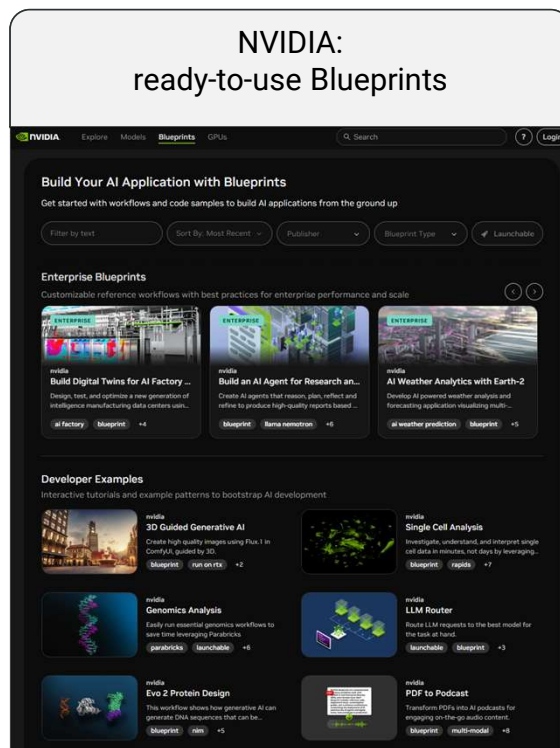
- ☐ Prompt engineering, design and AI operations

6. Strategy & Scale

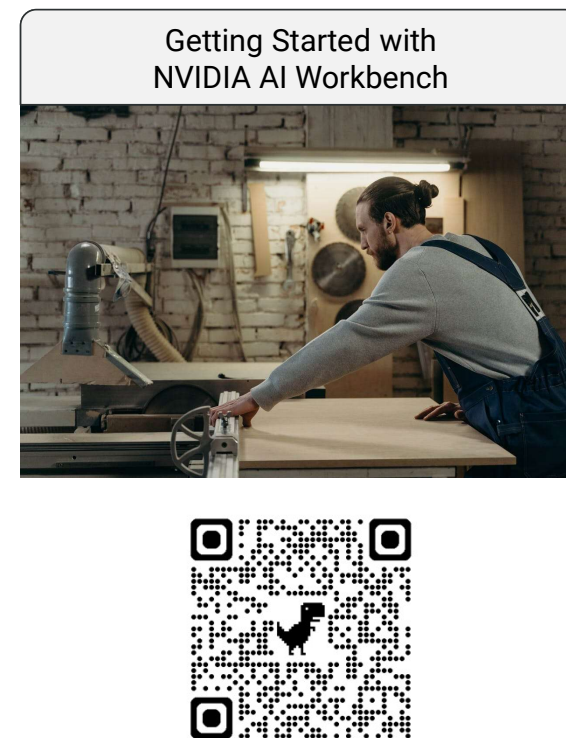
- ☐ Prioritize interoperability, security & cont. learning
- ☐ Scale across departments

Getting started - Kickstarters

Enabling Agentic AI in Your Enterprise with Templates



Source: NVIDIA



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AI Solutions @ Scale



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