Red Hat Summit

Connect

Agentic AI in Action

Red Hat & Intel Shaping the Future of Enterprise AI

Helsinki October 23rd, 2025

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Intel

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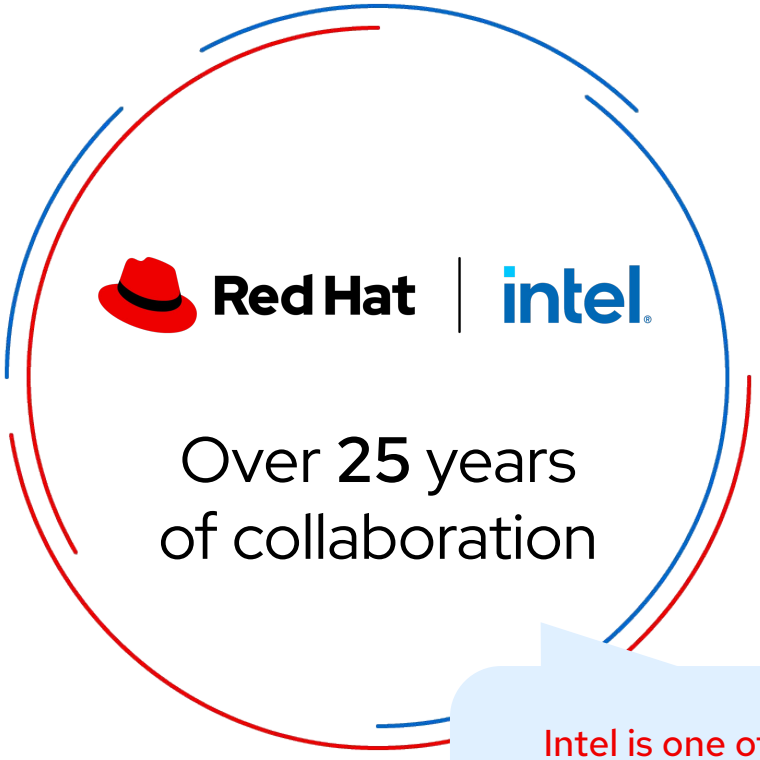
Intel - RH Partnership

Open source software: Intel is committed

Intel® has a long history with Linux®, actively participating in open source development and collaboration with the Linux community, to ensure hardware is well-supported and delivers optimal performance on Linux-based systems.

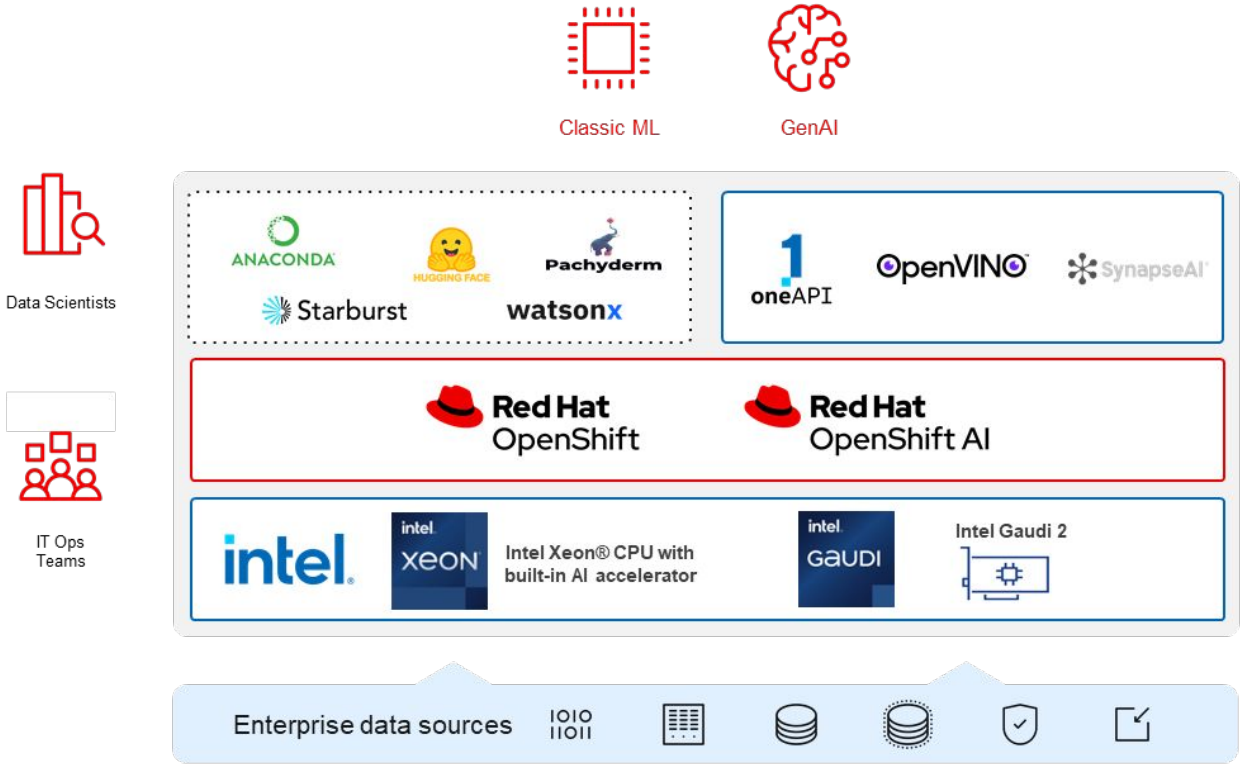
Intel contributes to more than 100 different open source projects, from the Linux kernel to cloud orchestration and plugins for Kubernetes.



Intel is one of the key contributors
Linux Kernel Corporate Contributor since 2007[1]

Source:
[1] Open source software: Intel engineers are engaged. Intel Innovation Digital 2021.

Real Customer Example: AI Sweden



- Collaborating to deliver AI solutions
- Deeper, product collaboration focused on customer enablement with OpenShift AI, Intel Xeon, Gaudi 2 and the Intel AI Suite
- Testing, validation, and proof of concepts
- Receive support for building AI applications

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Intel's AI Strategy and Capabilities

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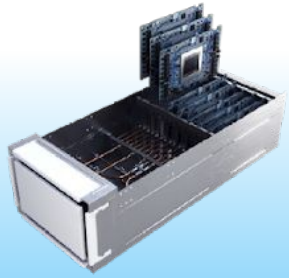
Bringing AI Everywhere

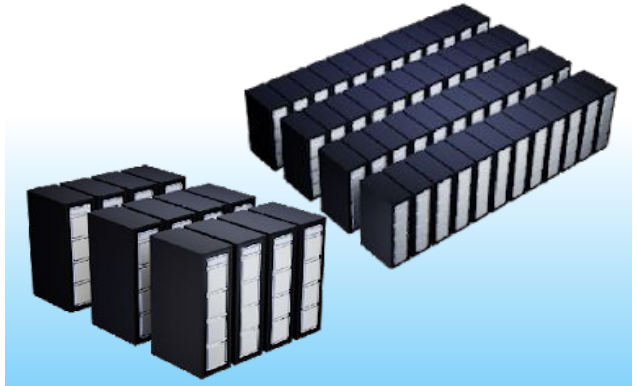
Intel's AI Strategy

AI PC Node
AI Developer Productivity & Light Inference



Node
Fine-tuning, Inference

Cluster
Light Training, Tuning, Peak Inference



Super Cluster
Training, Tuning, Peak Inference

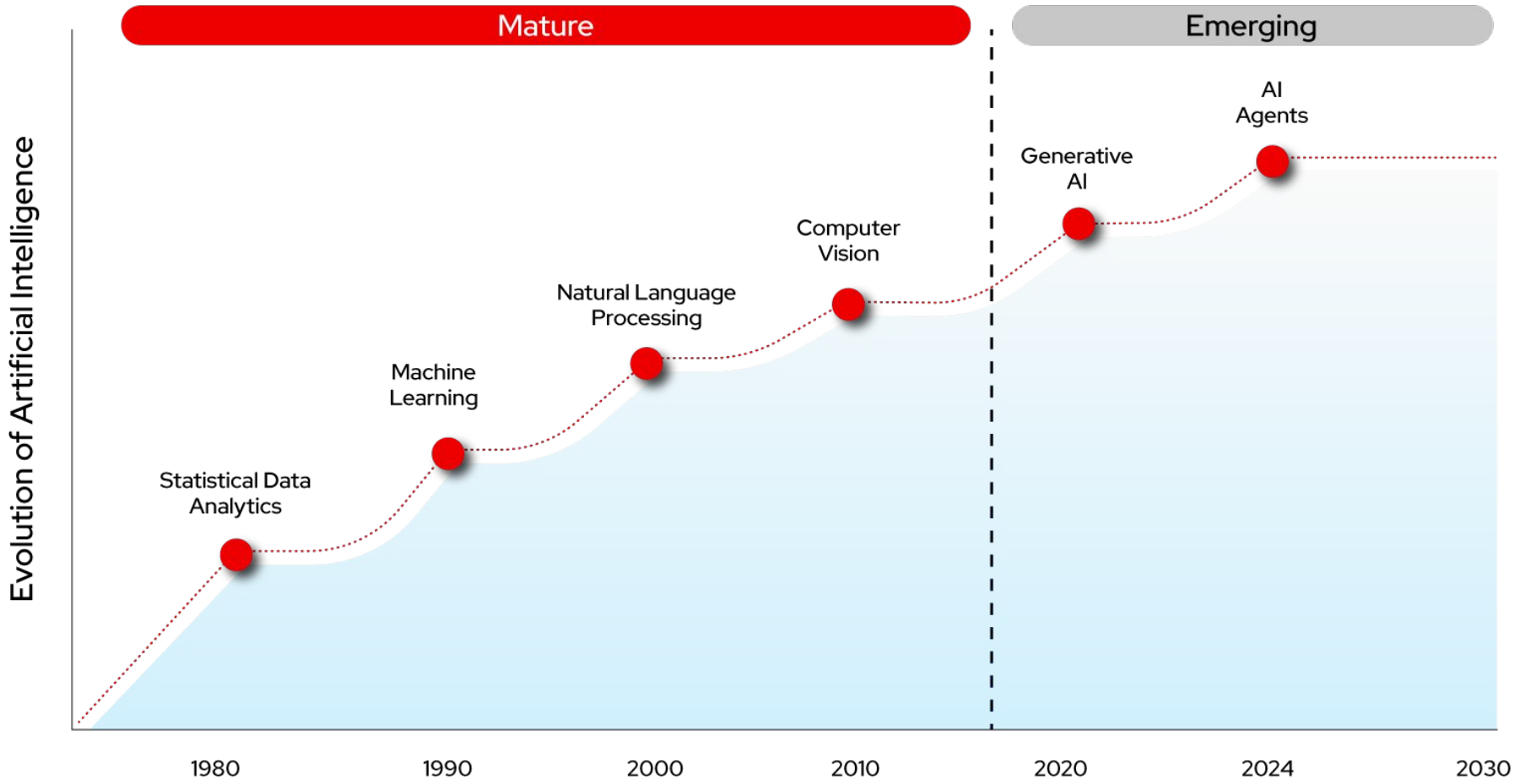
Mega Cluster
Large Scale Training & Inference

AI PC
Broadest AI SW Ecosystem

ENTERPRISE AI & EDGE AI
Open Standard, "Ready to Use"

DATA CENTER AI
AI Open, Scalable Systems & Reference Arch

Evolution of AI Applications in Enterprise Use Cases

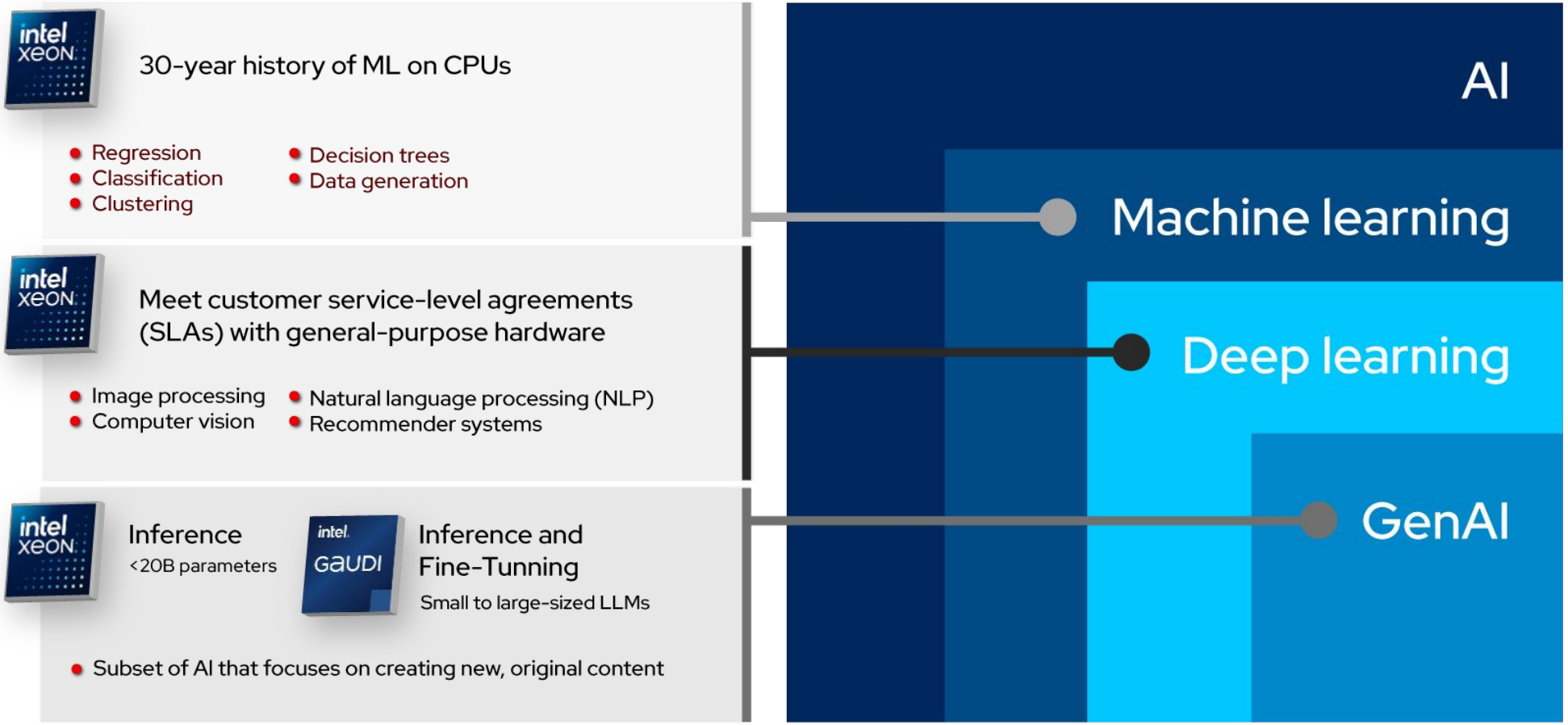


Intel's AI Strategy

Open	Less cost, No lock in
Innovation	AIPC to Edge to Datacenter & Cloud
Efficient	Performance per $ & per W leadership
Secure	Data as your IP & Models as your IP

The AI Hierarchy: Mapping ML, DL, and GenAI with Intel

Discover how Intel® processors fuel AI workloads across inference, training, and next-generation GenAI applications



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Red Hat's AI Strategy and Capabilities

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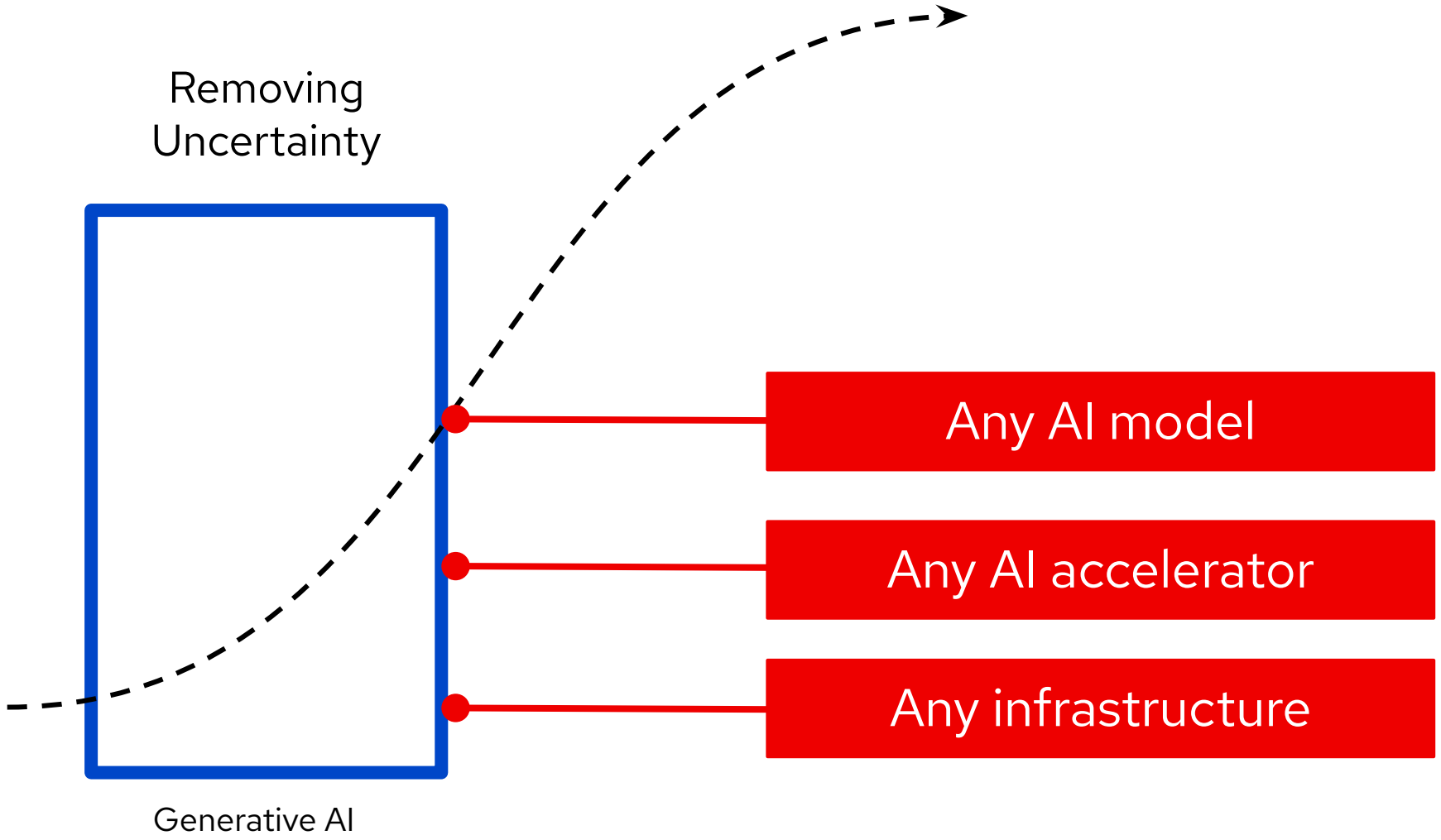
Red Hat AI - Enabling AI Success



Red Hat AI

Accelerate the development and delivery of AI solutions across hybrid-cloud environments

Increase efficiency with **fast, flexible and efficient inferencing**

Simplified and consistent experience for **connecting models to data**

Flexibility and consistency when **scaling AI across the hybrid cloud**

Accelerate Agentic AI delivery and stay at the forefront of innovation

Red Hat AI

Red Hat AI
Inference Server

Red Hat
Enterprise Linux AI

Red Hat
OpenShift AI

Trusted, Consistent and Comprehensive foundation

NVIDIA AMD intel Hardware Acceleration Google aws IBM

Physical

Virtual

Private Cloud

Public Cloud

Edge

* NVIDIA, AMD, Intel, Google TPU supported in Red Hat AI. AWS Inferentia/Neuron IBM AIU are on our roadmap

Intel Gaudi AI Accelerators

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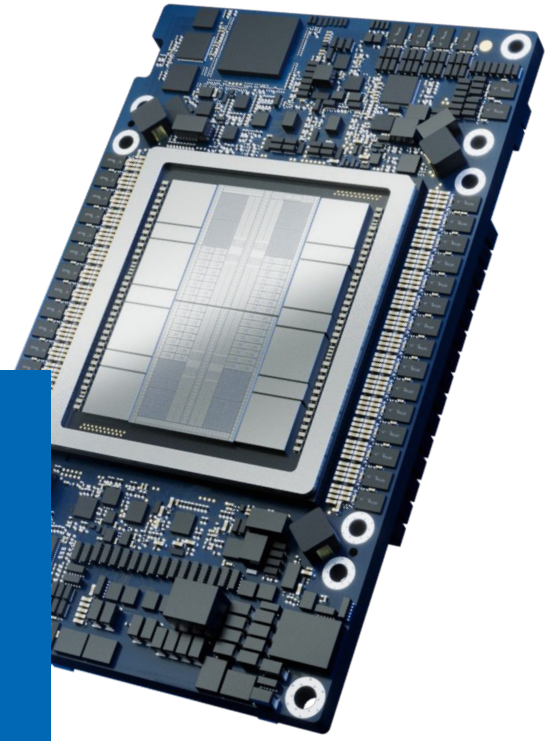
Intel® Gaudi® 3 AI Accelerator: AI Inferencing

Price Performance Advantage



Up to
43%

Higher throughput
(tokens per second)

on IBM Granite-3.1-8B-Instruct

vs. leading GPU competitor
with small context sizes

Up to
120%

More cost efficient
(tokens per dollar)

on Mixtral-8x7B-Instruct-v0.1

vs. leading GPU competitor
with long input and short output sizes

Up to
92%

More cost efficient
(tokens per dollar)

on Llama-3.1-405B-Instruct-FP8

vs. leading GPU competitor
with large context sizes

Source: Signal65 Lab Insight Whitepaper - Intel Gaudi 3 AI Accelerator at Scale on IBM Cloud, Intel-commissioned study by Signal65, published April 22, 2025. Reported numbers are inferencing results on Intel Gaudi 3 vs. NVIDIA H200. See source for workloads and configurations. Results may vary.

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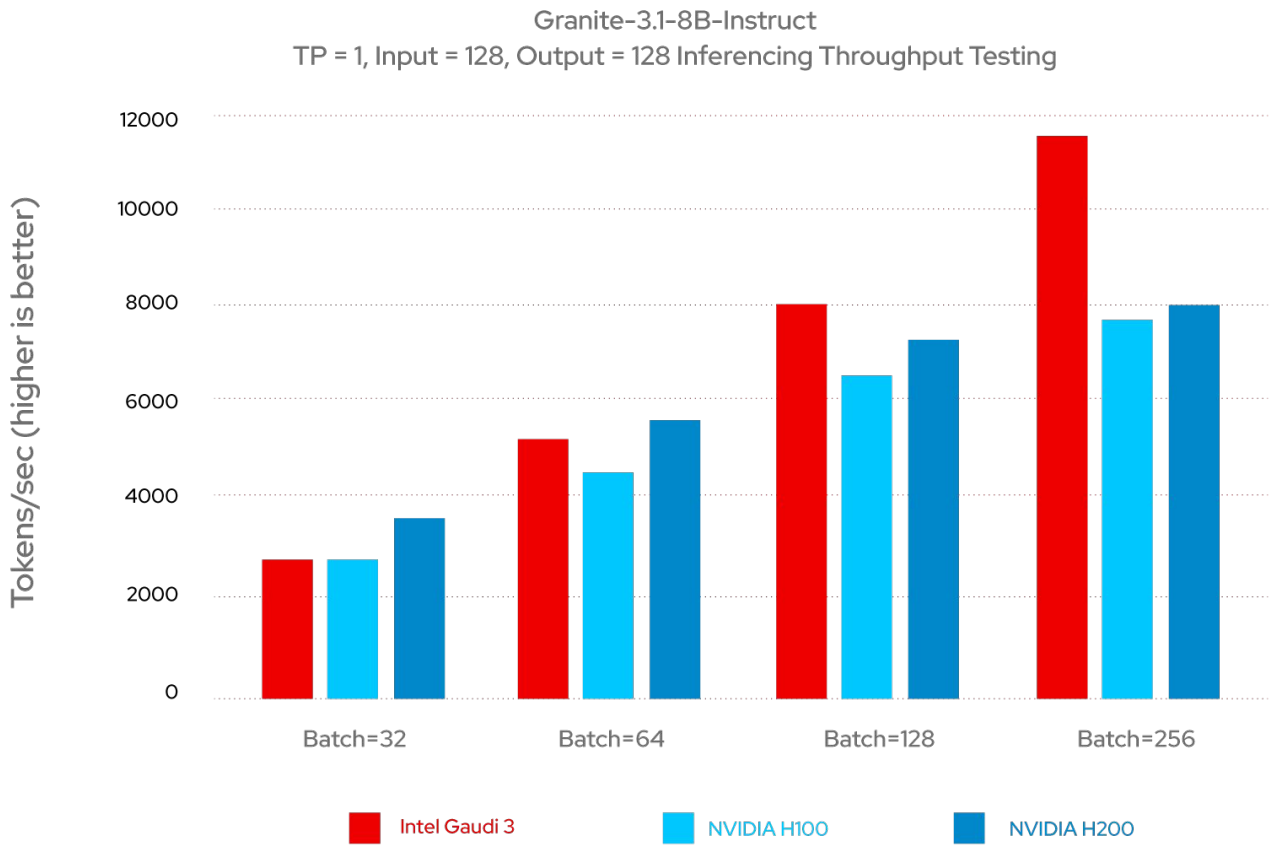
Up to **43% higher**

throughput than NVIDIA H200

Up to **52% higher**

throughput than NVIDIA H100

For lightweight AI Use Cases



*Source: NV H100 and H200 comparisons based on Signal65 Lab Insight: Intel Gaudi 3 Accelerates AI at Scale on IBM Cloud. April 2025.
Reported numbers are inferencing results for IBM Granite-3.1-8B-Instruct on Intel® Gaudi® 3 vs NVIDI H100 GPU and NVIDIA H200 GPU. Refer to this link for the latest published Gaudi3 performance https://www.intel.com/content/www/us/en/developer/platform/gaudi/model-performance.html
Pricing estimates based on publicly available information and Intel internal analysis.
Results may vary.

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Intel Xeon Processors

Intel® Xeon® 6 Processor

1.9x

higher performance per watt at a typical 40% server utilization vs. prior generation

Designed for Efficiency

2.5x

higher HPC performance vs. prior generation

Significant Performance Leaps

5.5x

higher AI Inferencing performance vs. AMD EPYC

Unmatched Performance

See [9G2, 9H9, 9A3] at intel.com/processorclaims: Intel Xeon 6. Results may vary

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Intel Confidential Computing

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Confidential Computing and Post Quantum Crypto for Information & Data Security

Intel® Software Guard Extensions (Intel® SGX)

Smallest Trust Boundary - Confidential data access is restricted to attested application code

Intel® Trust Domain Extensions (Intel® TDX)

Virtual machine isolation from cloud stack, admins, and other tenants

Post Quantum

Intel adds Quantum attack protection while providing 1.89 Tb IPsec throughput.

Performant Post-Quantum Cryptography (PQC) leveraging the Intel NetSec Accelerator and Arqit SKA-Platform™ for PQC.

1 - Data Sharing is a Key Digital Transformation Capability (gartner.com) / 2 - Privilege elevation exploits used in over 50% of insider attacks (bleepingcomputer.com) / 3 - Identifying global privacy laws, relevant DPAs | IAPP.

Intel AI Software

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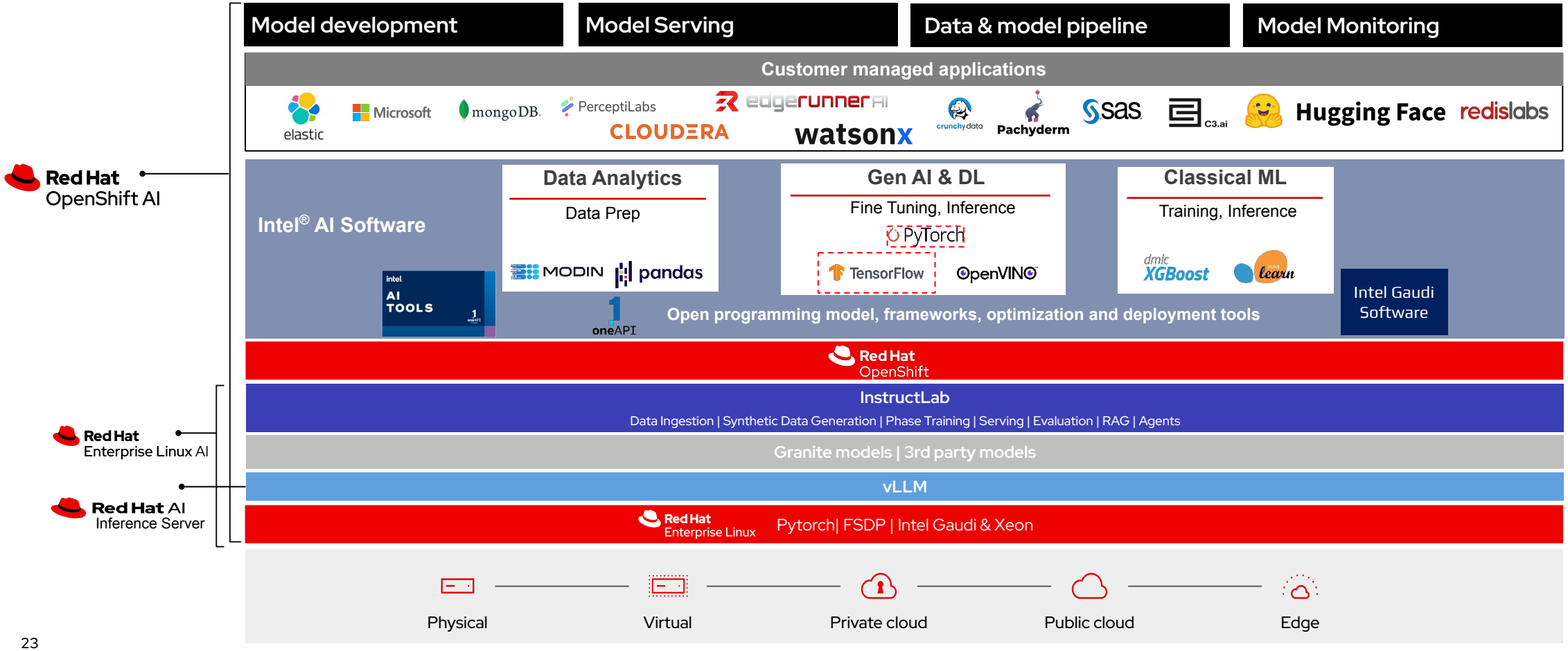
Red Hat AI with Intel AI platform

Generative AI and MLOps capabilities for building flexible, trusted AI solutions at scale



Red Hat AI Platform

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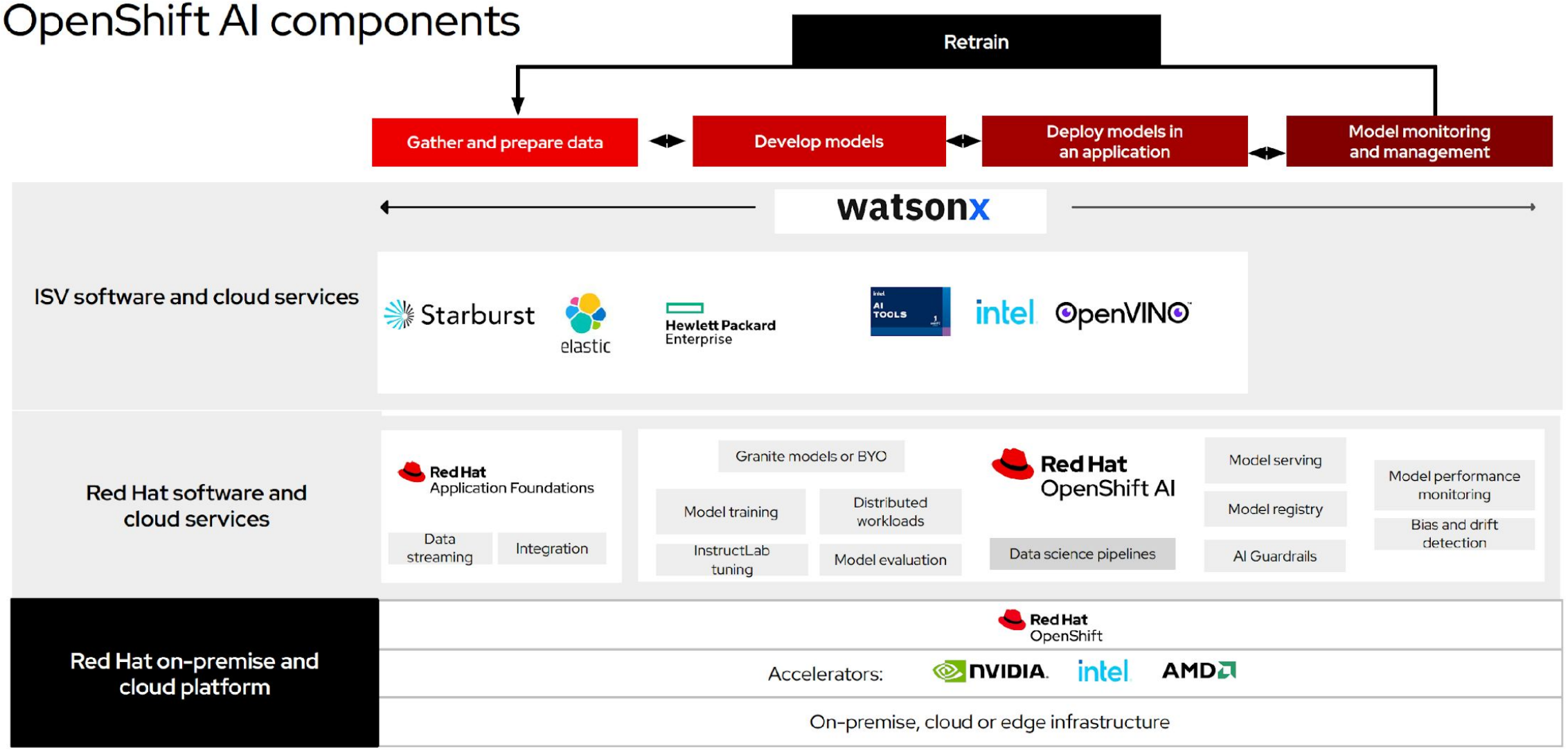
OpenShift AI components



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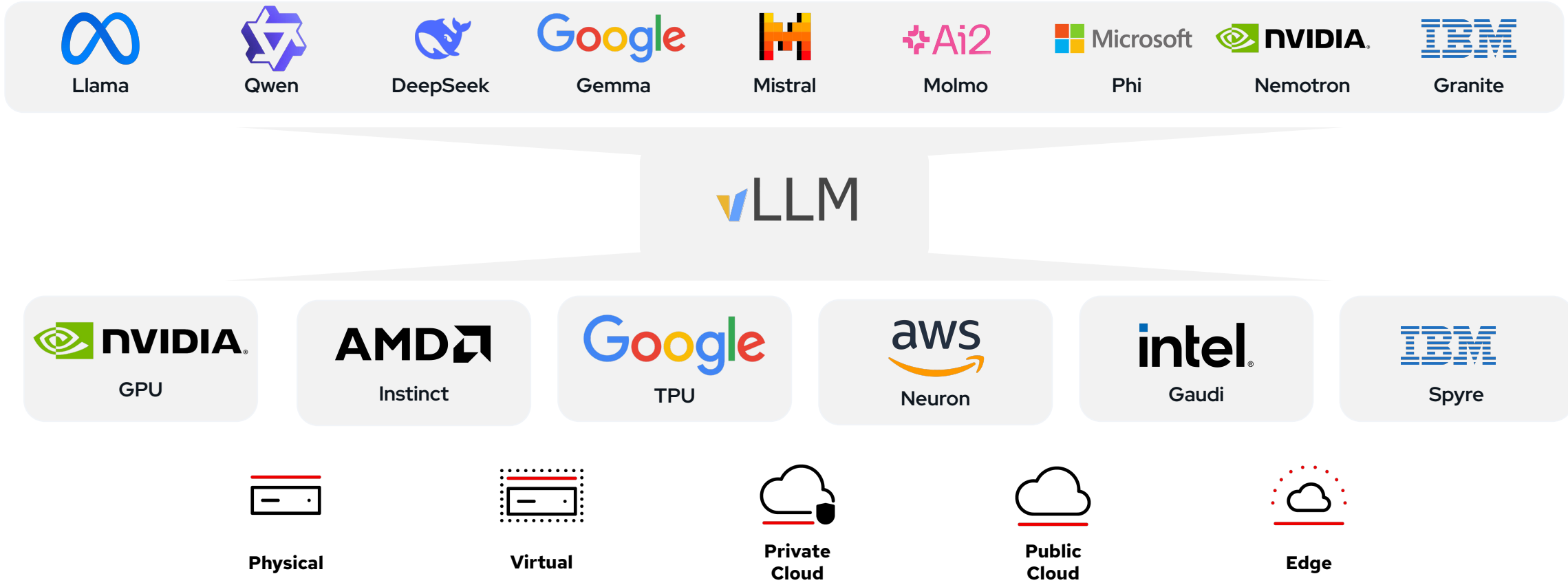
Red Hat AI the inference engine for the hybrid cloud

vLLM supports the key models on the key hardware accelerators



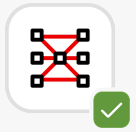
Red Hat AI repository on Hugging Face

A collection of third-party validated and optimized large language models

Broad Collection of models

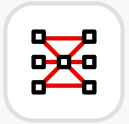
Llama
Qwen
Gemma
Mistral
DeepSeek
Phi
Molmo
Granite
Nemotron

Validated models



- Tested using realistic scenarios
- Assessed for performance across a range of hardware
- Done using GuideLLM benchmarking and LM Eval Harness

Optimized models

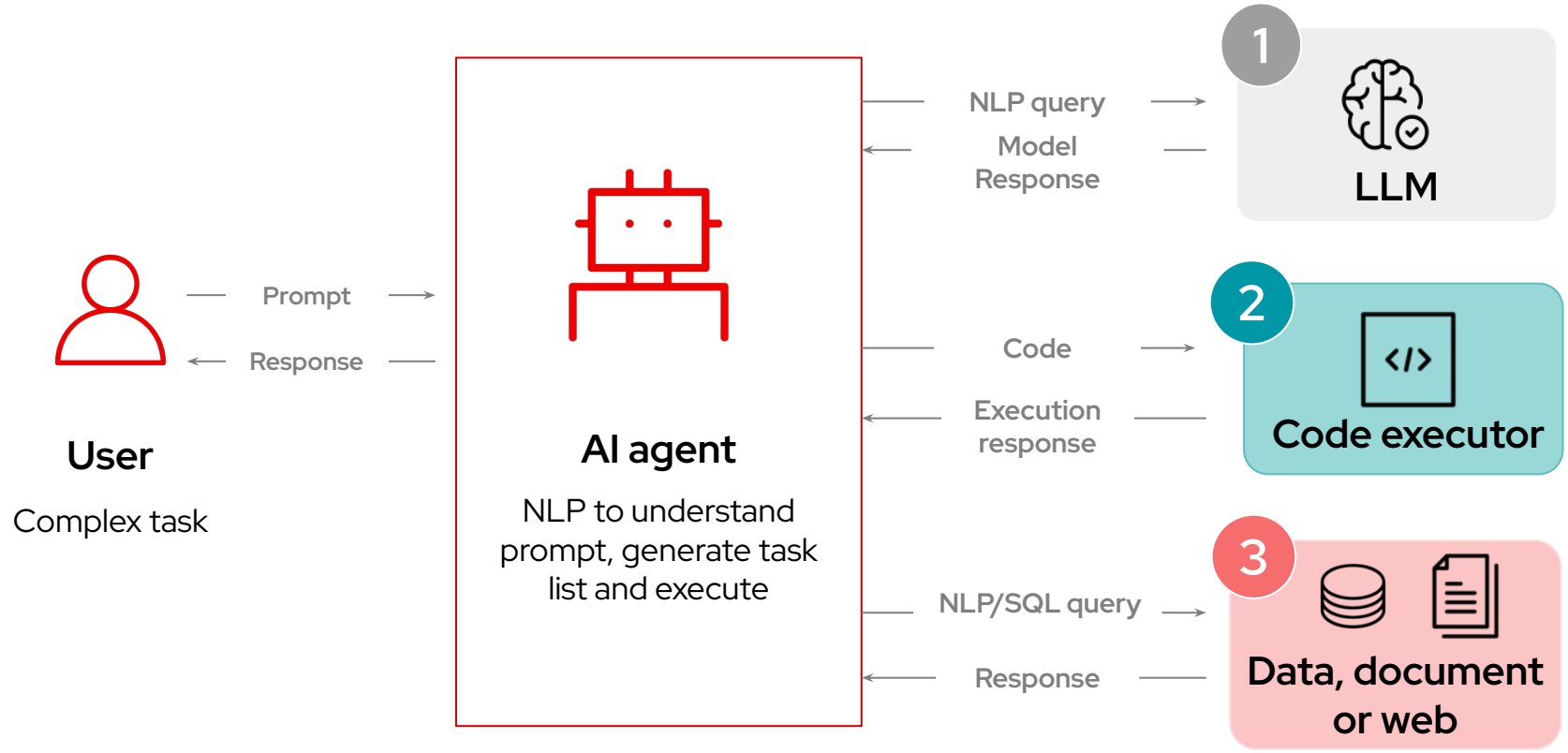


- Compressed for speed and efficiency
- Designed to run faster, use fewer resources, maintain accuracy
- Done using LLM Compressor with latest algorithms

Intro to Agentic AI

AI agents is a system that can take independent actions to achieve goals

Gen AI Models, Predictive AI Models, Code Functions, Search & more



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Agentic AI Demo

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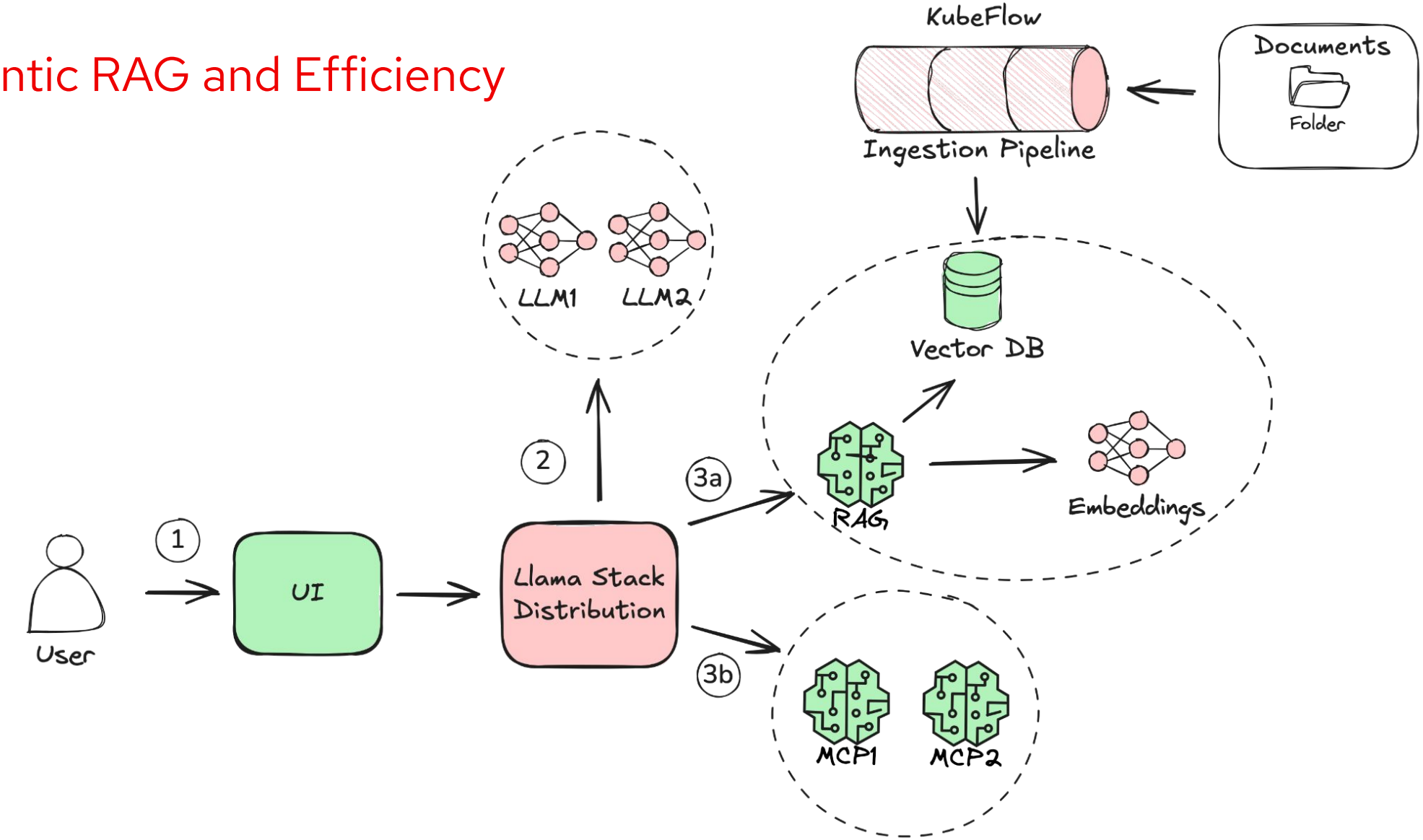
Background

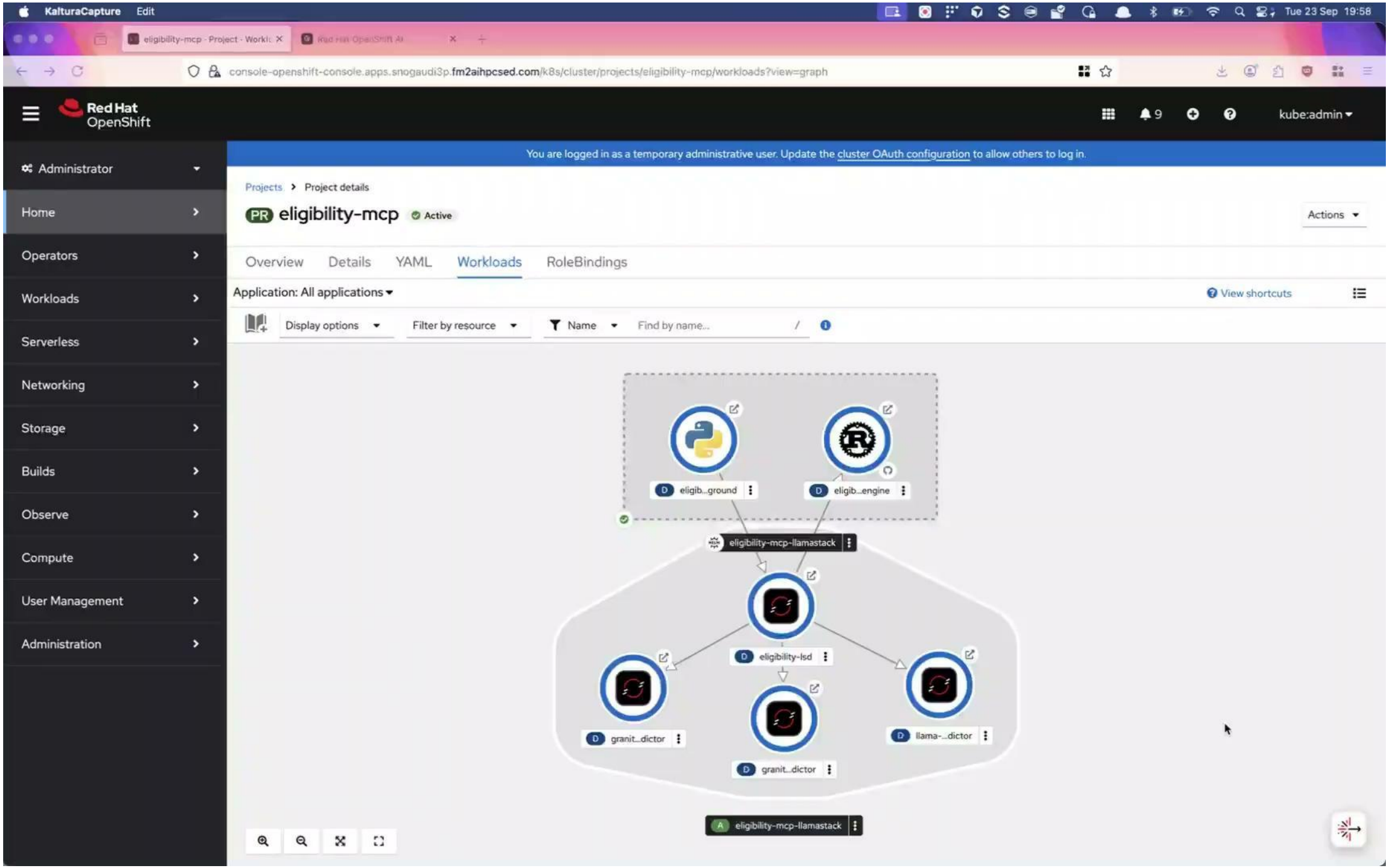
You build an app helping citizens to get money for different family situations.

You want the answer to be based on the context of the person

You want the answer to be specific and with a clear action for the citizen to take.

Agentic RAG and Efficiency

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Tue 23 Sep 19:58
console-openshift-console.apps.snogaudi3p.fm2aihpcsed.com/k8s/cluster/projects/eligibility-mcp/workloads?view=graph
Red Hat OpenShift
kube:admin
Administrator
Home
Operators
Workloads
Serverless
Networking
Storage
Builds
Observe
Compute
User Management
Administration
You are logged in as a temporary administrative user. Update the cluster OAuth configuration to allow others to log in.
Projects > Project details
PR eligibility-mcp Active
Actions
Overview Details YAML Workloads RoleBindings
Application: All applications
View shortcuts
Display options
Filter by resource
Name
Find by name...
eligib...ground
eligib...engine
eligibility-mcp-llamastack
eligibility-lsd
granit...dictor
granit...dictor
llama-...dictor
eligibility-mcp-llamastack

Apply for a **free** Gaudi 3 Proof of Concept in **30 seconds**

Choose your GenAI or Virtualization PoC:

- Building Inference, RAG, AgenticAI, Model-as-a-Service, and other AI Use Cases with Intel Gaudi and Xeon
- Optimize finetuning with intel Gaudi

Why work with Intel + Red Hat?:

- Benefit from access to free highly qualified experts from Red Hat and Intel and free access to the latest hardware to build your AI use case / application.

If selected, a Intel / Red Hat representative will contact you via email.

Come visit the Intel and Red Hat booths to learn more!

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Red Hat Summit

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