HPE and NVIDIA offer a turnkey solution for GenAI. Here's how.

It's dangerous to go alone: Cut through AI complexity with NVIDIA AI Computing by HPE.

Generative AI (GenAI) is a transformative technology, but for many enterprises, it follows a familiar and challenging path. From data collection to monitoring results, the AI development process is fraught with complexity, including difficulties in managing scattered data and scaling deployments effectively.

Enter NVIDIA AI Computing by Hewlett Packard Enterprise. This portfolio of products, which includes the powerful and turnkey HPE Private Cloud AI solution, is designed to simplify and accelerate GenAI adoption. Codeveloped by HPE and NVIDIA®, HPE Private Cloud AI includes the hardware, software, and services needed to deploy enterprise-grade AI workloads at scale, providing businesses with a fast, energy-efficient, and flexible way to develop and deploy GenAI applications.

Here's how traditional AI development cycles stack up against the HPE approach.

AI development steps	Traditional approach	HPE approach
Data collection and preparation	Developing GenAI tools begins with sourcing and organizing data. Businesses must identify, consolidate, and prepare diverse datasets. This includes cleaning, formatting, and ensuring they comply with privacy standards. Many organizations find collecting and preparing data from fragmented sources to be a major challenge. Ensuring compliance and privacy adds another layer of complexity.	The HPE Ezmeral Data Fabric platform, a core part of NVIDIA AI Computing by HPE, unifies data from diverse sources, locations, and platforms into a single logical data store. This makes it easy to manage and prepare data for use with GenAI while helping ensure compliance with privacy standards.
Model selection	Choosing the right AI model to fit business objectives is a delicate process requiring rigorous testing and validation. Switching models is even more difficult, often involving a complete redeployment of systems.	The HPE and NVIDIA platform simplifies model selection with a user-friendly drop-down menu, allowing businesses to instantly view and choose pretested and pre-integrated models without downtime or redeployment.
Deployment	Once models are ready, they must be integrated into existing systems. This involves painstakingly configuring multiple hardware, software, and security frameworks as well as complex hardware and software stacks. A lack of integration among these tools adds to the time and cost required to get systems up and running.	The turnkey infrastructure of HPE Private Cloud AI delivers consistent, high performance, scalable AI deployments. With pre-integrated, pretested tools and recently introduced solution accelerators, enterprises can deploy GenAI workloads and virtual assistants swiftly and effortlessly — often in just a few clicks.
Optimization	Continuous refinement ensures that AI workloads remain efficient, leveraging the latest advancements in hardware and algorithms. But keeping pace with advancements in AI hardware and software is difficult. Businesses also frequently face disruptions from downtime when updating their systems, leading to inefficiencies and additional costs.	The experts at HPE AI Services completely manage your implementation of NVIDIA AI Computing by HPE. HPE AI Services then helps customers optimize infrastructure at any scale with **right size** processing power and storage, making it easy to scale your resources as needed for effective model training and inferencing.
Monitoring and support	Ongoing monitoring is critical to ensure accuracy, performance, and compliance with data governance standards. But this requires managing multiple tools, which leads to fragmented and incomplete oversight. As a result, businesses often lack visibility into performance metrics, energy usage, and operational costs.	HPE GreenLake cloud is the backbone of HPE Private Cloud AI. This as-a-service hybrid cloud offering provides the manageability and observability you need through an efficient, centralized dashboard with real-time insights into performance, energy efficiency, and costs. HPE Complete Care Service, our highest level of support, is standard — and included for three years.

GenAI's potential is immense. However, development challenges can deter even the most ambitious enterprises. With NVIDIA AI Computing by HPE, businesses gain a turnkey solution that simplifies every stage of AI development. By integrating best-in-class technologies with a comprehensive service model, HPE and NVIDIA empower organizations to achieve their AI goals faster, more efficiently, and confidently.

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