Accelerating workflows with Lenovo AI Developer

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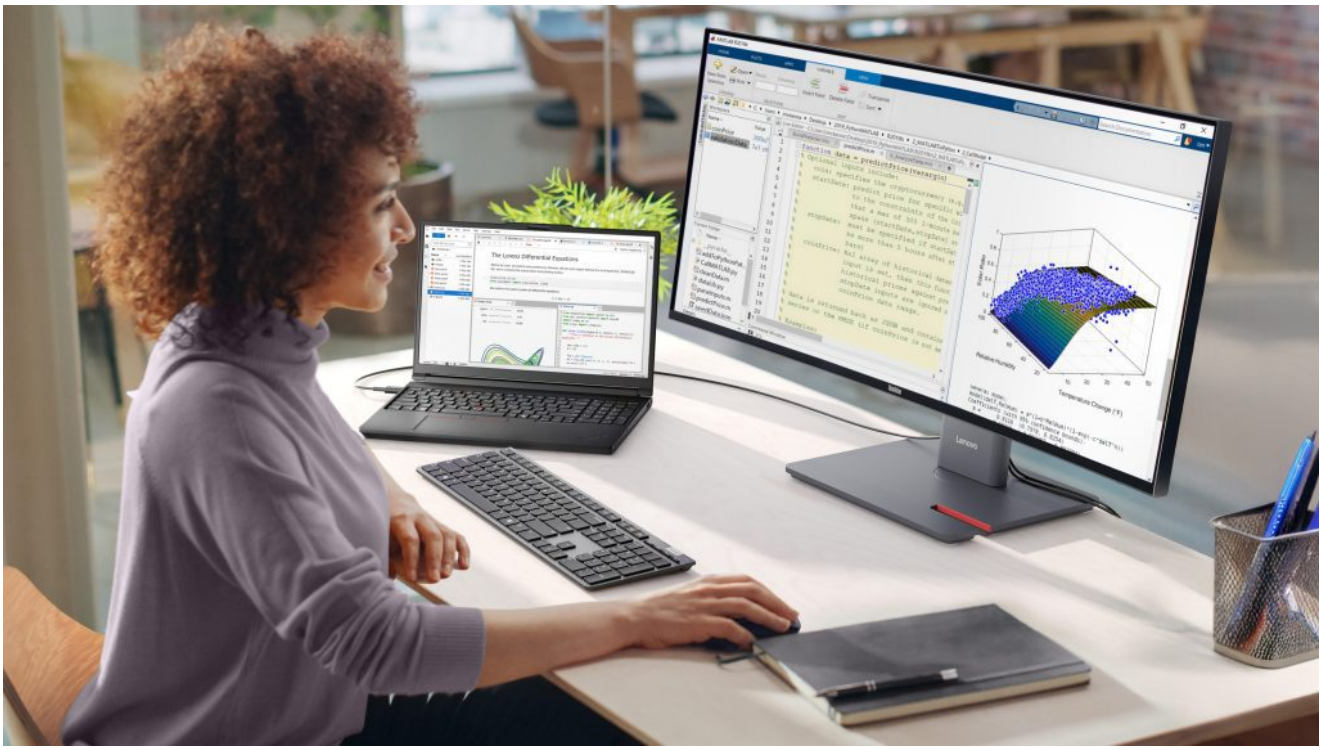

Coming October 15 Lenovo adds the ThinkStation PGX to its portfolio *of hardware and software solutions optimized for data scientists and AI practitioners.*

Accelerating AI Workflows

Businesses need more than just powerful hardware—they require comprehensive workflow solutions tailored to address real-world industry challenges—and Lenovo has answers. Developed by Lenovo engineering experts through research and customer engagement to understand workflow bottlenecks and pain points, **Lenovo Workstation Solutions** deliver easily deployable and repeatable blueprints—scalable and secure reference architectures powered by the state-of-the-art **Lenovo Workstations**— Lenovo's most powerful client devices featuring superior software, and professional services.

Lenovo AI Developer is the newest category in Lenovo's portfolio of workstation solutions, designed to support demanding industry workflows. This suite of full-stack blueprints delivers hardware and software solutions optimized for data scientists and AI practitioners—built to reduce the complexities of AI and accelerate business outcomes with a faster path to return on investment. These solution blueprints simplify the development journey by integrating best-in-class open-source tools, AI libraries, and frameworks with Lenovo's ThinkPad and ThinkStation P series portfolio of NVIDIA and Linux-certified workstations.

The solutions and tools empower data scientists and AI developers to build, scale, and secure their AI workflows, enabling them to create value faster. Customers can experience end-to-end AI development support with solutions and tools for every stage of the AI lifecycle—from data prep, machine learning, and training to deep learning, fine-tuning, and inference.

The new solutions enable AI developers to achieve increased workflow efficiency and data science agility, as well as improved performance with a lower total cost of ownership. Additionally, they provide a faster time to AI outcome, utilizing the right tools for each stage of their workflow. And with workstations secured by **Lenovo ThinkShield**, developers' intellectual property is protected on-premise, in a protected, sandboxed developer environment.

AI-Optimized Lenovo Workstations

Lenovo's ThinkPad P-series and ThinkStation AI-focused workstations accelerated by cutting-edge CPUs and NVIDIA RTX PRO Blackwell GPUs to deliver scalable performance for data prep, model training, LLM fine-tuning, generative AI, and LLM inference. Ranging from the lightweight, portable ThinkPad P14s to the rack-ready ThinkStation PX, Lenovo AI Developer devices are designed to meet customers' performance and collaboration needs.

The **Lenovo ThinkPad P16 Gen 3**, a mobile powerhouse engineered to take on the most intensive workloads, features a new lighter-weight chassis design to provide enhanced portability and an elite level of performance. Featuring the latest Intel® Core™ Ultra 200HX series processors with up to 24 cores and an integrated NPU for fast and efficient AI processing, the ThinkPad P16 ensures smooth and efficient workflows for even the most demanding applications. With GPU support up to NVIDIA RTX PRO 5000 Blackwell GPUs (with 24GB VRAM) in a discrete GPU design, the P16 delivers maximum performance for the most graphics-intensive tasks—from gaming to complex 3D rendering and simulation. Featuring the latest Intel® Core™ Ultra 200HX series processors with up to 24 cores and an integrated NPU for fast and efficient AI processing, the ThinkPad P16 ensures smooth and efficient workflows for even the most demanding applications. With up to RTX PRO 5000 GPUs and 24GB VRAM in a discrete GPU design, the P16 delivers maximum performance for the most graphics-intensive tasks—from gaming to complex 3D rendering.

The Lenovo **ThinkStation PGX** is the first **NVIDIA GB10 Grace Blackwell Superchip–**powered Lenovo workstation. The new workstation is purpose-built in a compact form factor to complement AI workflows, including classic statistics, machine learning, computer vision, generative AI/LLM, robotics, and agentic design. Featuring 128GB of unified system memory, 20 CPU cores, up to 4TB of local storage, and NVIDIA ConnectX-7 networking to support the clustering of two devices together.

Preconfigured with the NVIDIA DGX OS and NVIDIA AI software stack, plus popular tools like PyTorch and Jupyter notebooks, the PGX delivers a familiar, efficient development experience. The PGX is an ideal companion device for developers, researchers, and students who need scalable AI capabilities without the complexity or cost of cloud infrastructure.

Lenovo AI Developer with NVIDIA AI Workbench Blueprint

To solve today's AI development workflow challenges, Lenovo AI Developer pairs state-of-the-art Lenovo workstations with **NVIDIA AI Workbench**— offering right-sized, high-performance hardware for each stage of your AI journey. AI Workbench is a no-cost AI development platform that takes a hybrid approach to data science, machine learning, and generative AI workloads.

From automated setup for click-through installation and configuration of customers' GPU-accelerated workstations to command-line or graphical interfaces, AI Workbench helps accelerate workflows. Workstation power users can start quickly in Jupyter Lab or Visual Studio Code with streamlined Git versioning and containerization. They can also configure interfaces like Gradio and Streamlit apps to run locally, allowing for on-the-fly modifications.

Collaboration is critical; it takes a team of data scientists and developers to get the job done right. AI Workbench users can connect to GitHub, GitLab, or self-hosted GitLab to collaborate. And when the team needs to scale, they can move projects from ThinkPad P Series Mobile Workstations with NVIDIA RTX PRO Blackwell GPUs, and scale to more powerful multi-GPU configured ThinkStation P Series Workstations, and on to the datacenter. Download the solution guide to learn more about Lenovo AI Developer and the NVIDIA AI Workbench Blueprint.

Accelerated AI Workflows Mean Smarter Technology for All

Data scientists, AI developers, and machine learning engineers are at the heart of many companies' digital transformation strategies. However, the efficient use of available employees, project budgets, and computing resources is crucial to delivering a sustainable return on investment.

Lenovo Workstations are purpose-built and engineered to meet and exceed the rigorous performance requirements of today's most advanced AI workloads. The superior hardware enables AI professionals to operate at their best, turning data into business insight and enabling AI projects to move quickly from concept to PoC and on into production in the fastest possible time.

AI-optimized Lenovo Workstations, combined with Lenovo AI Developers Solutions, mark a transformative shift from the traditional bottlenecks in AI development to a more streamlined and efficient workflow—enabling others to build Smarter Technology for All.