

Transform Retail with Video Analytics from Fogsphere

A validated use case within the Lenovo AI Library

Retail Must Adapt and Evolve

The retail business must continually juggle complex challenges. They need to deliver great customer experiences against rapidly-shifting consumer demands. Behind the scenes, they have to optimize staffing, reduce shrink, and constantly improve operations to protect margins. From crowded sales floors and checkout lines to stockrooms and loading areas, every part of the operation faces constant pressure to perform.

To outpace these challenges, leading retailers are embracing Agentic AI: software systems that autonomously execute tasks, reason across various sources, and integrate into existing workflows with minimal manual intervention. AI offers retailers a range of opportunities to harness more business value:

- Real-time inventory and process visibility, replacing manual monitoring
- Computer vision to improve safety, security and analytics tools
- Centralized, multi-site operational intelligence over fragmented site monitoring

But the challenge for most retailers isn't access to AI. It's the time, cost, and complexity of deploying it across stores at scale. By starting with proven, production-ready AI solutions instead of building from scratch, retailers can accelerate adoption, reduce operational complexity, and quickly unlock value through safer stores, reduced shrink, and more efficient operations.

Common Challenges Faced By Retailers



Limited Performance Visibility:

Retailers often lack real-time insight into store performance and customer behavior.



Scaling Operations: Monitoring performance consistently across stores and locations is difficult.



Customer Experience Gaps: Long waits and uneven checkout utilization can reduce satisfaction and sales.



Operational Blind Spots: Limited visibility into queues, staffing, merchandising, and inventory delays decision-making.



Fragmented Data: Disconnected systems make it difficult to gain a unified view of operations.

Overcome Operations Challenges with Lenovo AI Computer Vision for Retail

Lenovo AI Computer Vision for Retail, powered by Fogsphere software, turns retailers' existing store cameras into a source for real-time operational intelligence. Through intelligent video analytics, Lenovo helps retailers gain insights that improve customer experience, decision-making, workforce experience, and operational efficiency.

Results from this Lenovo AI Library use case:

- ✓ **Reduced customer wait times**, better resource allocation, and more consistent store performance.
 - **How:** It leverages the Fogsphere AI-driven platform to deliver real-time insights into customer queue length, checkout wait times, shelf replenishment, stockroom workflows, loading-bay occupancy, vehicle turnaround, and service-level performance.
- ✓ **Reduced manual audits**, greater operational consistency across locations, and improved multi-site performance management.
 - **How:** It automates monitoring of operational processes such as store opening and closing procedures, merchandising execution, cleaning, and inventory.
- ✓ **Better customer trend analytics and insights**, better merchandising decisions, and increased opportunities to optimize revenue-generating activities.
 - **How:** The platform captures metrics important for decision-making, including footfall, dwell time, traffic patterns, heatmaps, conversion zones, display engagement.
- ✓ **Better analytics**, benchmarking capabilities, and insights that drive smarter operational decisions.
 - **How:** It enables enterprise-wide visibility across multiple stores as well as standardized operational metrics across a multi-store footprint.

Built to Strengthen and Scale your Retail Operations

Lenovo AI Computer Vision for Retail can be customized to meet the processes and operations unique to every retailer. The use case can be tailored to different store formats, workflows, and business priorities. It integrates with a retailer's existing camera infrastructure, retail applications, and enterprise systems. And it can scale from a single store to a complex, global footprint.

Our solution is powered by the Fogsphere AI-driven platform and delivered through the Lenovo Hybrid AI Advantage™. The platform offers a range of AI-powered capabilities that include Edge AI, GDPR-by-design, digital twins, asset management and more — all inside one platform, deployed on your perimeter. Retailers can leverage centralized management, operational dashboards, real-time reports, and enterprise-grade governance across the retail environment. With Lenovo AI Computer Vision for Retail, you can harness intelligence that can uplevel customer experience, optimize operations across locations, and deliver insights that fuel better outcomes, faster.

Business Outcomes

- Up to 90% better decisions and improved processes in the Retail environment
- 95%+ of digitized processes and 99%+ fewer manual activities for HSE compliance data
- Improved operational decision-making
- Faster strategic planning cycles
- Reduced AI deployment risk
- Accelerated AI rollout within weeks, not months
- Faster ROI



From AI Ambition to Measurable Results

The Lenovo AI Library accelerates enterprise AI adoption by providing validated, production-ready use cases and AI agents designed to drive productivity, agility, and innovation.

These real, repeatable solutions are ready to be customized and scaled — helping organizations move from experimentation to ROI faster.

Every AI Library solution is:



Proven at scale



Secure and governed by design



Built for hybrid environments



Engineered for measurable business outcomes

Lenovo Services Available

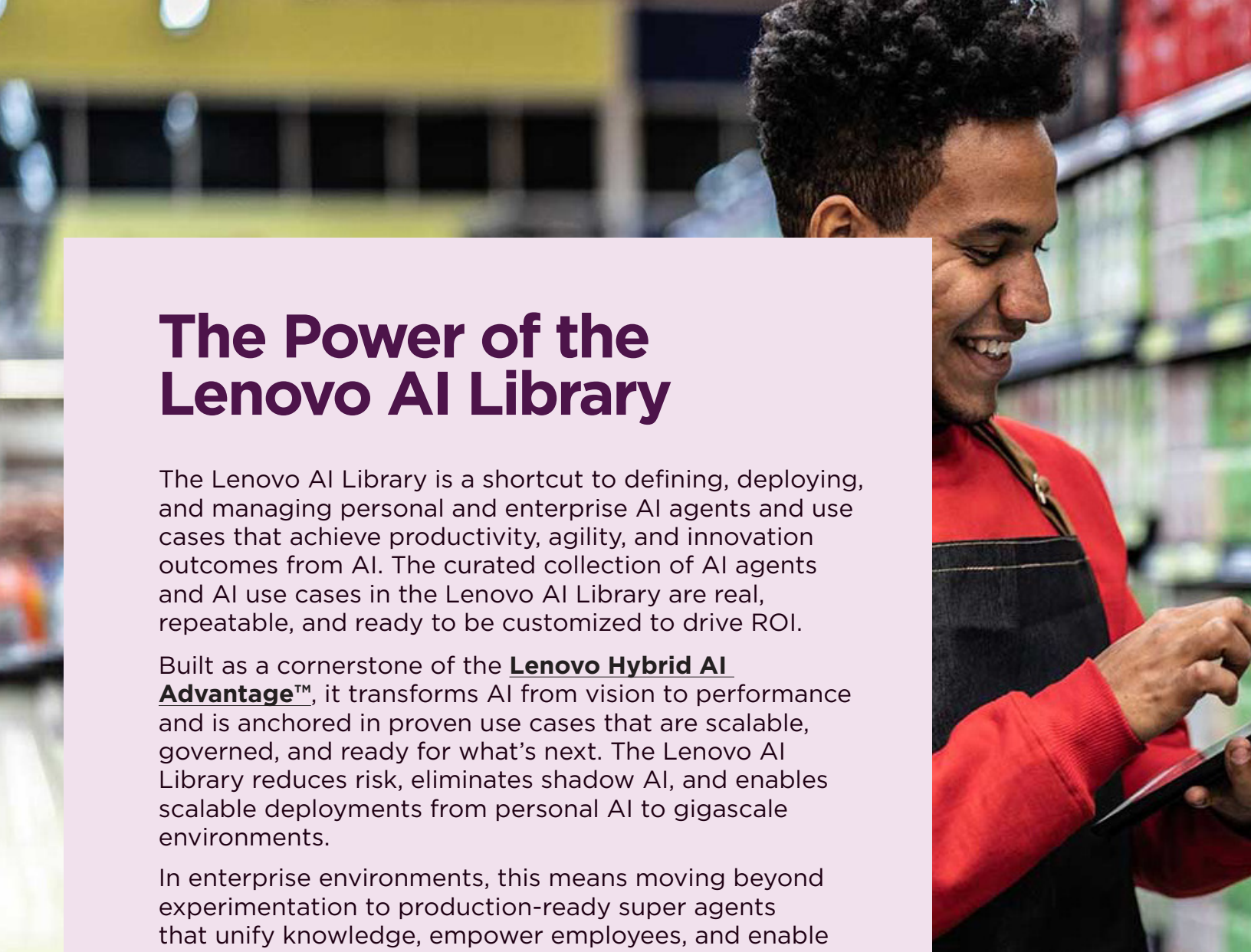
- ✓ AI Discover
- ✓ AI Fast Start
- ✓ Data Foundations for AI
- ✓ AI Use Case Customization
- ✓ AI Deploy & Scale
- ✓ AI Adoption and Change Management
- ✓ Ongoing governance, monitoring, and hybrid AI infrastructure optimization
- ✓ [Learn more about our AI Services](#)

No pilots that stall.

No fragmented integration.

Just AI built for real-world deployment.

Lenovo



The Power of the Lenovo AI Library

The Lenovo AI Library is a shortcut to defining, deploying, and managing personal and enterprise AI agents and use cases that achieve productivity, agility, and innovation outcomes from AI. The curated collection of AI agents and AI use cases in the Lenovo AI Library are real, repeatable, and ready to be customized to drive ROI.

Built as a cornerstone of the **Lenovo Hybrid AI Advantage™**, it transforms AI from vision to performance and is anchored in proven use cases that are scalable, governed, and ready for what's next. The Lenovo AI Library reduces risk, eliminates shadow AI, and enables scalable deployments from personal AI to gigascale environments.

In enterprise environments, this means moving beyond experimentation to production-ready super agents that unify knowledge, empower employees, and enable intelligent decision-making — all within a secure, governed, hybrid architecture.

AI success isn't just about technology; it's about choosing the right partner. The Lenovo AI Library removes the uncertainty and complexity from enterprise AI with validated, secure, and scalable solutions built for real-world enterprise environments. Harness greater value from AI investments with proven Lenovo AI Library use cases that deliver results.

[Learn more](#)

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technology
for all**

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