

# Unlocking Multimodal AI for Vision & Text Intelligence

Actionable Insights, Faster Decision-Making, and Scalable Automation

## Executive Summary

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Enterprises are overwhelmed with unstructured data across product images and documents. Most AI tools handle only text, leaving critical insights trapped, slowing workflows, and driving up costs. By 2025, 80% of the global datasphere is projected to be unstructured ([IDC, Data Age 2025](#)), highlighting the growing risk of blind spots for enterprises without domain-tuned AI.

Fireworks AI provides a production-ready platform for scalable, fine-tuned multimodal AI intelligence, enabling enterprises to extract structured, actionable insights and automate workflows reliably at scale. Key capabilities include:

- **Vision & Text Intelligence:** Fine-tuned vision-language models (VLMs) for product classification, document parsing, and structured data extraction at scale.
- **Domain Adaptation & Fine-Tuning:** Fine-tune vision-language models aligned to enterprise taxonomies, document schemas, and internal knowledge for higher accuracy, efficiency, and automation.

Enterprises adopting Fireworks AI can expect to:

- Achieve fast, context-aware understanding across images and documents.
- Scale low-latency processing for production workloads.
- Reduce operational costs, increase automation, and drive measurable business impact.



### The Case for AI in Software Development

**MACRO TREND** — Enterprises are drowning in unstructured data. Analysts spend hours manually tagging images and parsing forms, while decisions slow down and costs rise. Without multi-modal AI, valuable insights remain locked in raw content.

**CHALLENGE** — Most enterprises lack domain-tuned AI that can handle images and documents with domain-specific accuracy. As a result, critical insights remain locked, slowing workflows and increasing costs.

**SOLUTION** — Fireworks provides enterprise-grade multimodal AI that can extract insights from text and images out-of-the-box. Turn unstructured data into formatted text that can be systematically processed at scale.

Fireworks AI provides a complete, enterprise-ready platform for processing images, documents, and product data in real time.

Feature	Enterprise Value	How Fireworks Enables It	Metrics/Benchmarks
Model choice & customization	Tailored AI for domain-specific data	Choose between different VLMs and speech models or use fine-tuned models	Accuracy on domain-specific tasks
Enterprise-ready infrastructure	Low-latency, high-throughput inference, reliable scale for production workloads	Optimized, proprietary serving stack, GPU auto-scaling, and global infrastructure	Sub-2s latency, millions of queries/day
Cost Efficiency	Lower TCO for large-scale AI deployments	Optimized serving architecture that reduces GPU/infra waste	Cost-optimized deployment
Control & Flexibility	Enterprise governance and compliance controls	BYOC deployment for vision models, FireOptimizer, audit and RBAC controls	Enterprise-grade compliance and traceability for regulated workloads
AI Orchestration/ Gateway	Centralized model management	Unified API, model catalog, monitoring	Enabled consistent operations across thousands of endpoints
Model Lifecycle Management	Continuous performance and cost optimization	Build → Tune → Scale cycles	Consistent throughput, reduced downtime, cost-optimized deployment

This combination of **speed, precision, cost efficiency, and enterprise control** addresses the key challenges enterprises face when extracting insights, and automating workflows across images and documents.

## People & Process

- Build expertise to fine-tune models for domain-specific image and documents.
- Integrate AI-assisted workflows into product and operational pipelines.
- Collaborate between AI/ML teams and product/platform teams.

## Technology Implementation

- Deploy VLMs models on scalable infrastructure.
- Use Fireworks AI Gateway to centralize orchestration, monitoring, and model upgrades.
- Continuously evaluate performance, accuracy, and cost efficiency.

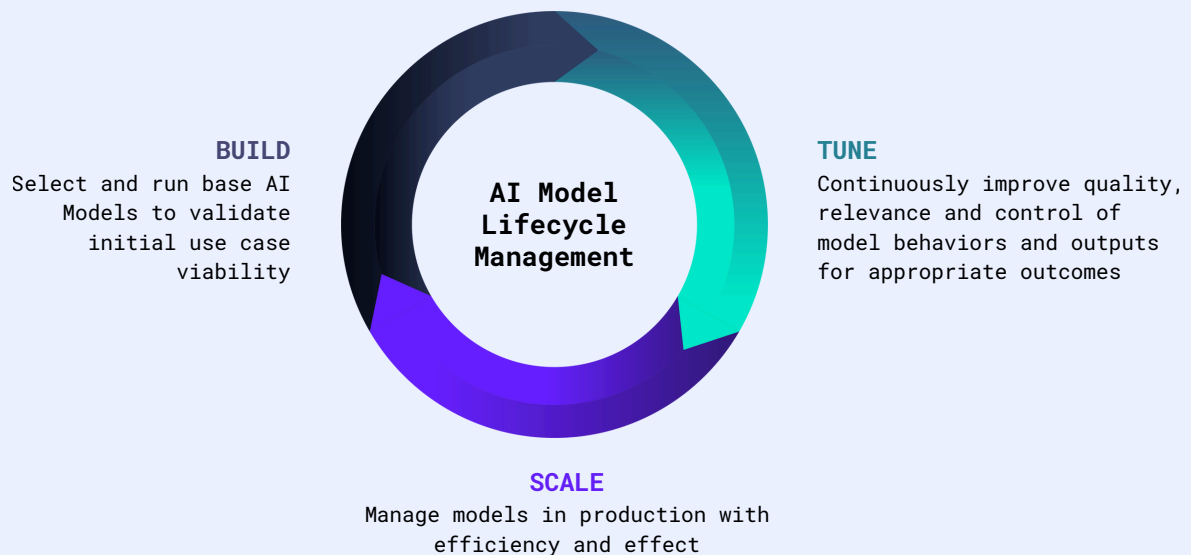
## Risk Management

- Ensure compliance and auditability with BYOC, RBAC, and logging.
- Protect proprietary data and model outputs.
- Minimize vendor lock-in and operational risk.

## Operational Patterns

- **AI Gateway:** Unified API for inference, monitoring, and scaling.
- **Model Lifecycle Management:** Build → Tune → Scale selection, fine-tuning, continuous deployment, cost optimization.
- **Product-Model Co-Design:** Embed multimodal AI capabilities into workflows and products for measurable ROI.

## Model Lifecycle Management



Multimodal AI enables enterprises to:

- **Accelerate decision-making** and operational efficiency.
- **Reduce manual effort** in tagging, classification, and extraction.
- **Ensure compliance and auditability** in sensitive workflows.
- **Scale insights** across millions of SKUs and documents.
- **Drive smarter automation** and product experiences with domain-specific intelligence.

Deploying scalable, low-latency multimodal AI allows organizations to unlock faster, more accurate, and cost-effective insights across text and images, enabling reliable automation and informed business decisions at enterprise scale.

## Getting Started

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### Identify high-value workflows

Start with targeted use cases such as Product catalog enrichment and document parsing.

2

### Run a pilot

Deploy Fireworks AI with recommended models to validate performance, latency, and cost efficiency.

3

### Scale and customize

Fine-tune models using enterprise-specific data and feedback loops.

4





### Implement operational patterns


Adopt AI Gateway, Model Lifecycle Management, and product-model co-design.

Enterprises can unlock real-time, structured insights from unstructured data at scale with Fireworks AI. By combining domain-tuned vision-language models with enterprise-grade infrastructure and lifecycle management, Fireworks AI transforms image and document data into actionable intelligence faster, more accurately, and cost-effectively.

Next Steps

Fireworks AI helps enterprises move from experimentation to production with confidence. To get started:

	<b>Assess workflows</b>	Identify high-value tasks involving images and documents.
	<b>Run a pilot</b>	Deploy Fireworks AI with fine-tuned multimodal for reliable extraction.
	<b>Fine-tune and scale</b>	Customize models for domain-specific datasets and scale across production workloads.
	<b>Adopt operational patterns</b>	Implement AI Gateway, Model Lifecycle Management, and product-model co-design. For a broader perspective on enterprise AI architecture and operational maturity, see our <a href="#">enterprise page</a> .

 **Fireworks AI**

**Contact Fireworks AI today** to schedule a pilot, explore model customization, and unlock scalable, high-performance code intelligence for your development teams.