ModelOp Center
Scale and Govern
AI Model Operations
ModelOps: How the Success of AI Initiatives is Realized

Within your enterprise, artificial intelligence (AI) initiatives have moved well beyond pilot projects and proof of concepts. Now, AI and machine learning (ML) are integral to the near- and long-term prospects of the organization.

Unfortunately, while AI initiatives continue to grow in number, scope and criticality, AI/ML model operations (or ModelOps) haven’t evolved to keep pace. Without effective operationalization, even the best data science models won’t deliver the value they could or should.

Now, the key is to scale the delivery of these models and ensure they remain compliant and optimized. That’s why you need ModelOp Center.

Al Investments Are Growing

71% of companies have increased their AI budgets in 2021.

53% have a dedicated budget for model operations.

State of ModelOps 2021 Survey, Corinium Intelligence

Read the complete State of ModelOps 2021 Survey Report
Use of AI Models Increasing, Operations Can’t Keep Pace

Across organizations and industries, the investments in AI initiatives continue to grow, and so do the stakes. Increasingly, the ability to harness AI/ML models will be a make-or-break factor for business success.

To meet their business imperatives, AI/ML models are vital, and for many leaders, getting these models put to work has been an urgent imperative. However, what many teams are finding is that once these models are in production, rather than being done, the hard work is just beginning.

The biggest barriers to entry for ModelOps include:

- **72%**: Lack of integration with existing development, IT, security and business applications
- **80%**: Difficulty managing risk and ensuring regulatory compliance
- **65%**: Lack of standardized processes
- **70%**: Lack of staff with the necessary skillsets
- **62%**: Cost of operationalizing models
- **64%**: Lack of efficient processes

---

The Rapid Growth of AI/ML Models

79% of organizations have some or all business units running AI in production.

On average, organizations have almost **300 models** in production.

State of ModelOps 2021 Survey, Corinium Intelligence

---

Read the complete State of ModelOps 2021 Survey Report

---

1 State of ModelOps 2021 Survey, Corinium Intelligence
Siloed, Team-Led Implementations Add Complexity

Across the enterprise, it hasn’t just been the number of models that have been growing. Seemingly, a distinct team, with its own tools and operational processes, is looking to manage each model built. One survey found 81% of organizations have five or more different teams deploying models in the organization.² Invariably, each team starts from scratch, reinventing their own wheel.

These siloed approaches present organizations with a number of massive obstacles:

- **Operational and cost inefficiency.** Teams struggle with ad hoc, complex integration efforts and inconsistent, unproven and unpredictable processes. All these factors significantly stifle operational efficiency and productivity, breeding high costs and lengthy delays.

- **Compliance risk.** Often, individual teams lack discipline in consistently applying risk management controls in their operations, and the central teams tasked with auditing and enforcing policy compliance lack visibility, governance or control over the models in production. With no central way to track models and data, and how they’re being modified and used, businesses are left exposed to the potential for policy violations and a number of other risks.

- **Unrealized potential.** Teams can’t efficiently monitor model performance. This makes it difficult to spot emerging issues like model drift, which means the accuracy of results can be degraded, and teams won’t find out about it until it’s far too late. By managing models in a disparate fashion, top leaders can’t uniformly, effectively track and improve the ROI of all models running in the organization. Instead, they’re left with guesswork and suboptimal plans and investments, and the true potential value of model investments is never fully realized.

² State of ModelOps 2021 Survey, Corinium Intelligence

The Path to AI Success is Challenging

Even if systems and processes are in place, they are not always effective.

A survey found teams had the following systems in place, but rated them as not very effective:

1. Maintaining an inventory of deployed models
2. Maintaining a compliance and audit trail
3. Monitoring models
4. Model governance

State of ModelOps 2021 Survey, Corinium Intelligence

Read the complete State of ModelOps 2021 Survey Report
Introduction to ModelOp Center

ModelOp Center offers enterprises a way to centrally, consistently and efficiently manage all their AI/ML models. The solution enables teams to optimize the entire model operations lifecycle, from initial deployment through to retirement.

With ModelOp Center, teams can automate and orchestrate model monitoring and governance. The solution delivers all the key capabilities teams need to establish reliable, compliant and scalable AI initiatives. With these capabilities, ModelOp Center helps teams maximize the value of their models, boost operational and cost efficiency and control risk.

Key Requirements for ModelOps

When asked to rate their importance, respondents cited the following benefits as “crucial” or “very important”:

- **76%**: Model operationalization cost reductions.
- **69%**: Improved enforcement of governance and compliance rules.

State of ModelOps 2021 Survey, Corinium Intelligence

Read the complete State of ModelOps 2021 Survey Report
Key Capabilities: End-to-End Orchestration

ModelOp Center offers complete capabilities for managing models across their entire lifecycle, from deployment to retirement.

The solution enables teams to:

- Define, refine, standardize and automate every step involved in model operations.
- Use pre-defined processes for registration, operationalization, risk management and monitoring.
- Design consistent, optimized, end-to-end operational processes for all models, while enabling flexible customization based on metadata collected.
Key Capabilities: Continuous, Authoritative Model Governance

With ModelOp Center, your teams can establish continuous verification of model compliance. As a result, you can consistently, authoritatively ensure ongoing enforcement of regulatory mandates, business policies and risk controls.

ModelOp Center enables your teams to automate and orchestrate comprehensive governance workflows. You can use a rules-based engine to automate monitoring and enforcement of controls. The solution makes it fast and efficient to deliver accurate, authoritative auditing and compliance reports.

ModelOp Center equips you with full transparency and auditability, enabling you to track end-to-end model lineage at each step in the model’s operational lifecycle. The solution gives you a powerful way to maintain a comprehensive production model inventory that includes these details:

- Model documentation
- Snapshots of every version and model source
- History of all jobs executed
- Test metrics
- Training data
Key Capabilities: Robust Model Monitoring

With ModelOp Center, establishing monitoring of new models is extremely fast and efficient. The solution features pre-built models that can be used to establish monitoring of statistical, technical and infrastructure performance issues. The solution features monitors that cover a range of areas, including data drift, concept drift, ethical fairness, interpretability and population scoring, characteristic stability and more.

With its advanced capabilities, ModelOp Center enables your teams to automate a range of activities, including:

- Detecting issues with operational performance.
- Enforcing risk and governance controls.
- Orchestrating problem remediation and updates.

ModelOp Center enables you to automatically observe, detect and remediate operational, quality, risk and process issues and orchestrate and track steps to resolution.

With the solution, you can establish automation that spans from simple to highly complex. For example, you can ensure that when models encounter errors or surpass established thresholds, an alert can automatically be generated and automated actions initiated for problem diagnosis. The solution offers integration with ServiceNow and other IT service management platforms for incident and change management. Further, you can even have a model decommissioned automatically if policies are being violated.
Key Capabilities: Seamless, Flexible Integration and Model Support

With its advanced capabilities and flexible integration, ModelOp Center provides one platform for managing all your AI, ML and analytics models.

Manage models built with a wide range of development tools and frameworks, and track models running on premises and a broad range of cloud environments.

ModelOp Center seamlessly integrates with your enterprise ecosystem, including your model development tools, IT systems, risk management systems and business applications. The solution features more than 40 pre-packaged integrations. Further, the solution's RESTful API makes it easy to add support for new technologies and applications whenever needed.

ModelOp Center
Features More Than 40 Prepackaged Integrations

- AI model factories
- Model frameworks
- Model workbenches
- Shared IT systems
- Cloud-based ML services
- BI visualization tools

View the full list of ModelOp Center integrations
Key Capabilities: Flexible, Intuitive, and Powerful Visibility

ModelOp Center provides a unified way to track and manage all your models, and it offers the sophisticated visibility that streamlines tracking, governance and reporting efforts. The solution offers rich operational and business views. With the solution, you can view all models and filter model views by different business units and roles. In addition, you can quickly and efficiently view model performance, deployment velocity and data performance.

The solution also offers powerful capabilities for customizing reporting and visualization. You can use model metadata, custom tags and KPIs to align views with your specific role, objectives and business requirements. In addition, through the solution’s integration with Tableau, you can easily create custom views.

Learn How ModelOp Center Integrates With Tableau for Custom Visualization

Tableau Integration

Watch the Video
The Benefits of ModelOp Center

By using ModelOp Center to manage all your enterprise’s AI/ML models, your organization can realize a number of significant benefits:

- **Get more value.** With ModelOp Center, you can ensure models make it into production faster, and that, once deployed, they continue to operate optimally. With the solution, customers have been able to boost model revenue contribution by up to 30%.

- **Get value faster.** The solution enables you to standardize, streamline and automate the entire operationalization process of all your models. For example, you can reduce the effort required to manage model lifecycle definition by 80%. With these capabilities, you can speed the time it takes to go from deployment to decision making by 50% or more.

- **Reduce cost and business risk.** With ModelOp Center, you can gain the controls and visibility needed to ensure continuous compliance with all applicable regulations and policies. With the solution, you can streamline auditing and reporting processes, while controlling the business’ exposure to failed audits and penalties for non-compliance.

Calculate Your Potential Payoff from ModelOp Center

See for yourself how much value ModelOp Center can deliver to your business.

Use our [ROI calculator](#) and get immediate numbers.
The Power of ModelOp Center in Action

**Business Need**
For a large insurer, claims processing represents an area that has a significant impact on customer experience and satisfaction. However, the team was struggling with manual hand-offs and workflows, which resulted in frequent delays and frustrated customers.

**Challenge**
The team sought to implement AI models that could intelligently automate many claims, but they were finding it too time consuming and costly to get their models into production.

**Solution**
The team leveraged ModelOp Center to streamline deployment, monitoring and management of their AI models.

**Benefit**
With ModelOp Center, the team was able to automate claim triage and fraud detection, and realize a 20% reduction in operating expense.

---

Learn More

The AI/ML models used in your organization represent a vital strategic asset. Now you can manage them accordingly.

With ModelOp Center, your teams can centrally manage, monitor, govern and optimize all your models. With these capabilities, you can maximize the business value your models deliver, while minimizing costs and controlling risk.

About ModelOp

ModelOp, the pioneer of ModelOps software, enables large enterprises to address the critical governance and scale challenges necessary to fully unlock the transformational value of enterprise AI and machine learning investments. Core to any AI orchestration platform, G2000 companies use ModelOp Center to govern, monitor and orchestrate models across the enterprise and deliver reliable, compliant and scalable AI initiatives.

For more information visit modelop.com.