

Empowering Data-Driven Transformation

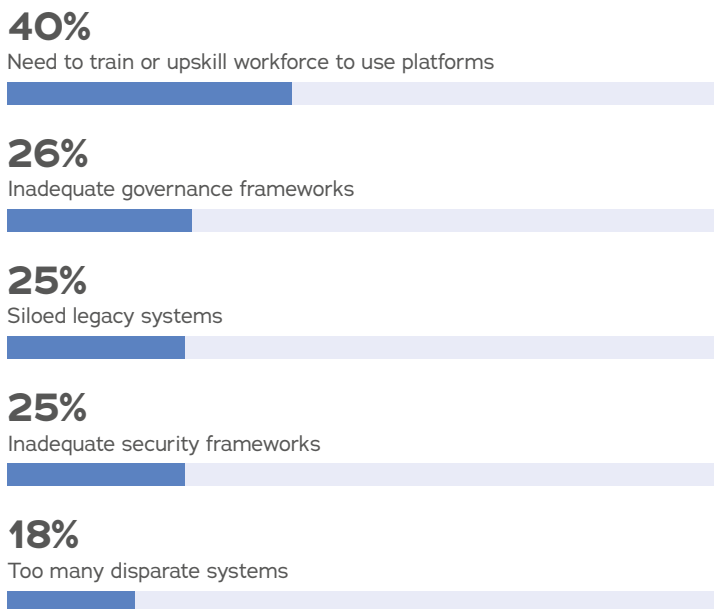
Unifying Data, Accelerating Insight, Powering Innovation

The generative AI era is transforming how organizations innovate, deliver services, and drive productivity. Satsyil empowers agencies and enterprises to unlock the full value of their data by implementing and optimizing the **Databricks Data Intelligence Platform** - securely, efficiently, and at enterprise scale.

We deliver not only technical excellence, but true **enterprise-wide adoption** - through structured training, information sessions, user enablement, and continuous skill development programs. Our mission is to empower data analysts, data engineers, data scientists, and decision makers to unlock the full potential of the Databricks platform and drive transformative outcomes.

As a **certified 8(a) small business** and **Databricks partner**, Satsyil is transforming how our clients use data and leverage AI/ML to solve problems faster and make smarter (more informed) decisions that achieve their mission outcomes while delivering measurable impact.

According to MIT Technology Review Insights Survey 2023, Top Pain Points of an Organization's current data and AI platforms:



*Source: MIT Technology Review Insights Survey, 2023



databricks



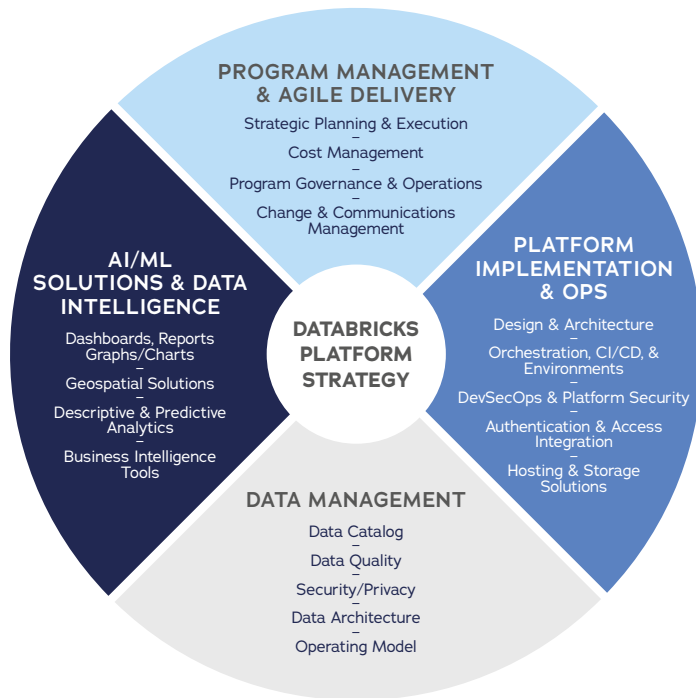
Our Databricks Expertise

- ★ **Enterprise-Grade Databricks Implementation & Operations**
Delivering secure, scalable, and highperformance Databricks environments with proven success in mission-critical federal systems.
- ★ **Robust Organizational Adoption & Enablement**
Driving enterprise-wide adoption through structured training, hands-on enablement, user communities, and continuous skill development programs.
- ★ **Secure DevSecOps & Automated CI/CD for Databricks**
Implementing secure development pipelines, automated deployments, and compliance-ready DevSecOps across ML, ETL, and GenAI workloads.
- ★ **Achievement of Databricks ATO in Secure Federal Environments**
Demonstrating compliance, security engineering excellence, and readiness across stringent government standards.
- ★ **Migration & Optimization of Large-Scale Data Pipelines**
Modernizing and re-architecting legacy ETL, Hadoop, and on-prem workloads into optimized Databricks pipelines with significant performance gains.
- ★ **Advanced Data Governance, Quality and Management**
Implementing Unity Catalog, data lineage, Delta Live Tables, and governance frameworks to ensure secure consistent, and high-quality data operations.
- ★ **Cost Optimization & Shared Cost Governance**
Developing cross-business unit cost control models, real-time FinOps Dashboards, automated alerts, and governance processes to maximize ROI.
- ★ **Intelligent Monitoring & Observability**
Implementing event-driven logging, pipeline observability, monitoring dashboards, and automated remediation of mission-critical operations.
- ★ **End-to-End AI/ML Platform Governance**
Implementing model governance, lineage approval workflows, and AI risk management frameworks aligned with emerging federal AI regulations.
- ★ **Real Time Analytics & Lakehouse Modernization**
Designing powerful Lakehouse architectures using Delta Lake, serverless SQL, streaming and auto-scaling clusters for low-latency analytics.
- ★ **Unified Data Intelligence Platform Strategy**
Creating enterprise strategies to consolidate silos into a governed Lakehouse, aligned with mission, security and cost objectives.
- ★ **Advanced Orchestration & Automation**
Using workflows, DLT, and Job Orchestration to automate pipelines, reduce failures, and improve reliability significantly.

Our Proven Approach

Satsyil's Databricks playbook is a comprehensive framework designed to guide organizations through every stage of Databricks adoption - from initial vision to enterprise-scale operations.

As Databricks partners, we have developed our Databricks playbook grounded from our extensive experiences, best practices, and lessons learned. This playbook serves as a center of excellence, providing an integrated suite of analytical, technical, and management processes and tools that guide planning, execution, oversight, operations, and organizational improvements. Through this playbook, we bring unparalleled focus and passion to understand our clients' needs and solve their biggest challenges.



Your Trusted Databricks Partner

Satsyil empowers clients to move from data silos to enterprise insight with measurable business and mission outcomes. Whether your goal is cloud migration, AI modernization, or enterprise analytics transformation — Satsyil and Databricks bring the expertise, tools, and vision to deliver success.

At Satsyil, we put our clients first—continually optimizing performance, streamlining infrastructure, and reducing Databricks Unit (DBU) consumption to ensure agencies get maximum value and measurable ROI from their data and cloud investments.

Proven Results: USPTO Success Story



Challenge:

The USPTO managed a vast and complex data ecosystem on the Cloudera Data Platform (CDP), supporting hundreds of analytics pipelines, data products, and critical AI workloads. However, legacy infrastructure limited scalability, slowed data ingestion, and increased operating costs. USPTO needed a secure, modern, and scalable platform to unify analytics, AI, and mission data - while ensuring uninterrupted service delivery and compliance with federal security standards.

Solution:

Satsyil partnered with USPTO to design and implement a multi-cloud Databricks enterprise platform, transforming how the agency manages, analyzes, and operationalizes the data. We migrated over 100+ pipelines from on-premise systems to Databricks with **zero downtime**, while modernizing data pipelines, analytics, and AI/ML workloads across multiple business units. Our implementation unified data silos and accelerated insight generation while ensuring FISMA compliance and security.

At a Glance: USPTO Databricks Implementation

- **400+ production pipelines** powering mission-critical patent and trademark workloads
- **428+ terabytes of curated data** managed across Lakehouse environments
- **240+ USPTO users** actively leveraging Databricks for analytics, engineering, and AI
- **20+ user groups** supporting **four major business** units across the enterprise
- **10+ secured Databricks workspaces** across Lab and Production environments

Key Implementation Highlights:

- Enhanced data quality, reliability, ingestion performance, and ontology mapping
- Improved scalability, resiliency, and adaptability through cloud-native architecture
- Achieved FISMA Moderate ATO and embedded DevSecOps and CI/CD pipelines for continuous security and automation

Positive Outcomes:

The Databricks platform, implemented and optimized by Satsyil, has delivered measurable business and mission outcomes for USPTO.

- ✓ **50% reduction in compute costs** achieved through autoscaling and spot-instance optimization
- ✓ **50 to 90% percent reduction in DBU usage** delivered through extensive pipeline optimization
- ✓ **30 to 50% faster pipeline runtimes** enabled by targeted performance tuning
- ✓ **90% decrease in job failures**, significantly improving production reliability
- ✓ **80% reduction in AI model training time**, accelerating experimentation and deployment
- ✓ **98% faster dashboard creation and insight generation**, boosting analyst productivity

