

unravel™

 databricks

DATASHEET

# UNRAVEL FOR DATABRICKS

AI-Powered Data  
Observability + FinOps  
Platform

Transform your Databricks environment with intelligent automation, cost optimization, and performance enhancement

## Overview

Unravel for Databricks is the industry's first AI-powered data observability and FinOps platform purpose-built for the Databricks ecosystem. By leveraging advanced machine learning and predictive analytics, Unravel provides comprehensive visibility, automated optimization, and intelligent governance to help organizations maximize their Databricks ROI while accelerating data and AI initiatives.

# 35%

**MORE WORKLOADS**

- Automatically optimize code, compute, and data by eliminating inefficiencies
- Achieve  $\pm 10\%$  budget forecast accuracy with predictive spend modeling

# 50%

**ENHANCED APP PERFORMANCE**

- Accelerate time-to-market for new AI initiatives
- Prevent pipeline bottlenecks before they impact production
- Streamline development with embedded CI/CD performance insights

# 90%

**LESS FIREFIGHTING TIME**

- Automated anomaly detection across data pipelines
- AI-enabled root cause analysis for rapid issue resolution
- Proactive alerts and auto-remediation capabilities

# 99%

**SLA ACHIEVEMENT**

- Predictive performance monitoring
- Automated cluster optimization and capacity planning
- Real-time resource contention detection

## Use Cases

### FinOps & Cost Optimization

- Real-time cost monitoring and optimization across all Databricks resources
- Automated budget management and overage prevention
- Cross-team cost allocation and chargeback reporting
- Strategic pricing plan selection and reservation management

### Performance Engineering

- SQL query optimization for faster results and reduced resource consumption
- Workload performance tuning and capacity planning
- Bottleneck identification and resolution automation
- Service level agreement (SLA) monitoring and enforcement

### Data Operations

- End-to-end data pipeline observability and quality assurance
- Proactive issue detection and automated remediation
- Data governance and compliance monitoring
- Operational efficiency improvement through automation

### Cloud Migration

- Legacy data warehouse migration planning and execution
- Post-migration optimization and performance validation
- Hybrid environment management during transition periods
- ROI measurement and business case validation

## Customer Successes

"Unravel cut our cloud data costs by 70% in six months—and kept them down."

- Financial Services Company

"Unravel helped us improve the platform resiliency and availability multiple fold."

- Retail company

"Equifax receives over 12 million online inquiries per day. Unravel has accelerated data product innovation and delivery."

- Equifax

"Unravel helped us reduce the time to identify and optimize top inefficient queries, cutting compute by 24%"

- Fortune Healthcare company

### Fortune Global 500 Bank

Implemented Unravel for developer pipeline evaluation, ensuring code performance before production release.

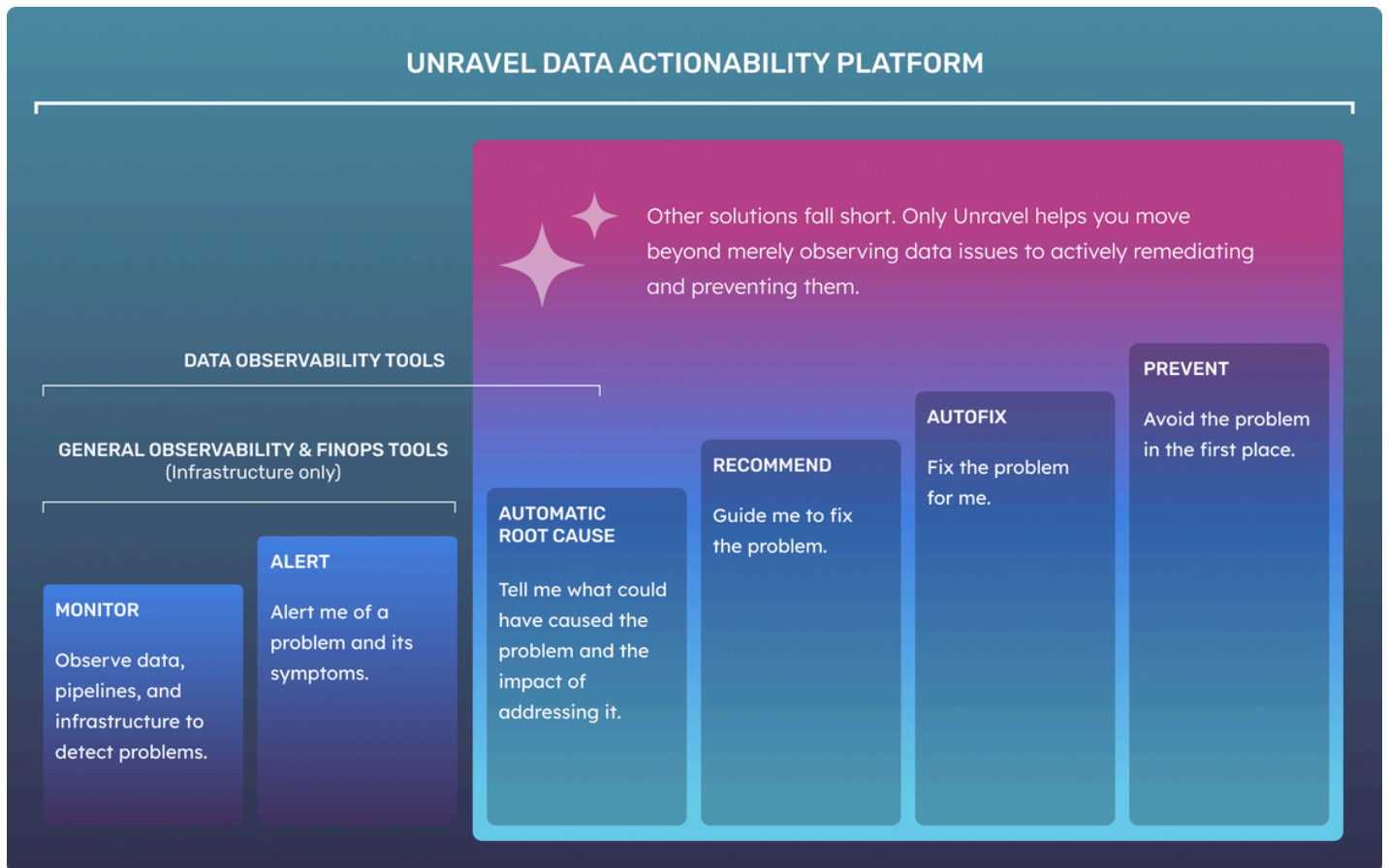
### Major Health Insurance Provider

Achieved optimal performance, reliability, and cost for business-critical data applications in development environments.

### Global Logistics Company

Used Unravel to upskill data teams at scale through CI/CD integration, ensuring quality and efficiency standards.





## Key Differentiators

### Beyond Traditional Observability

While traditional tools show "what" happened, Unravel's AI explains "why" it happened and "how" to fix it, moving from reactive monitoring to proactive optimization.

### Purpose-Built for Databricks

Unlike generic monitoring solutions, Unravel is specifically designed for the Databricks architecture, understanding the nuances of Spark, Delta Lake, and MLflow.

### Dynamic Analysis vs. Static

Unravel's recommendations are based on actual runtime performance and data characteristics, not just static code analysis.

### Financial + Technical Optimization

Unique combination of FinOps and performance optimization, ensuring both cost efficiency and technical excellence.

## Deployment Options

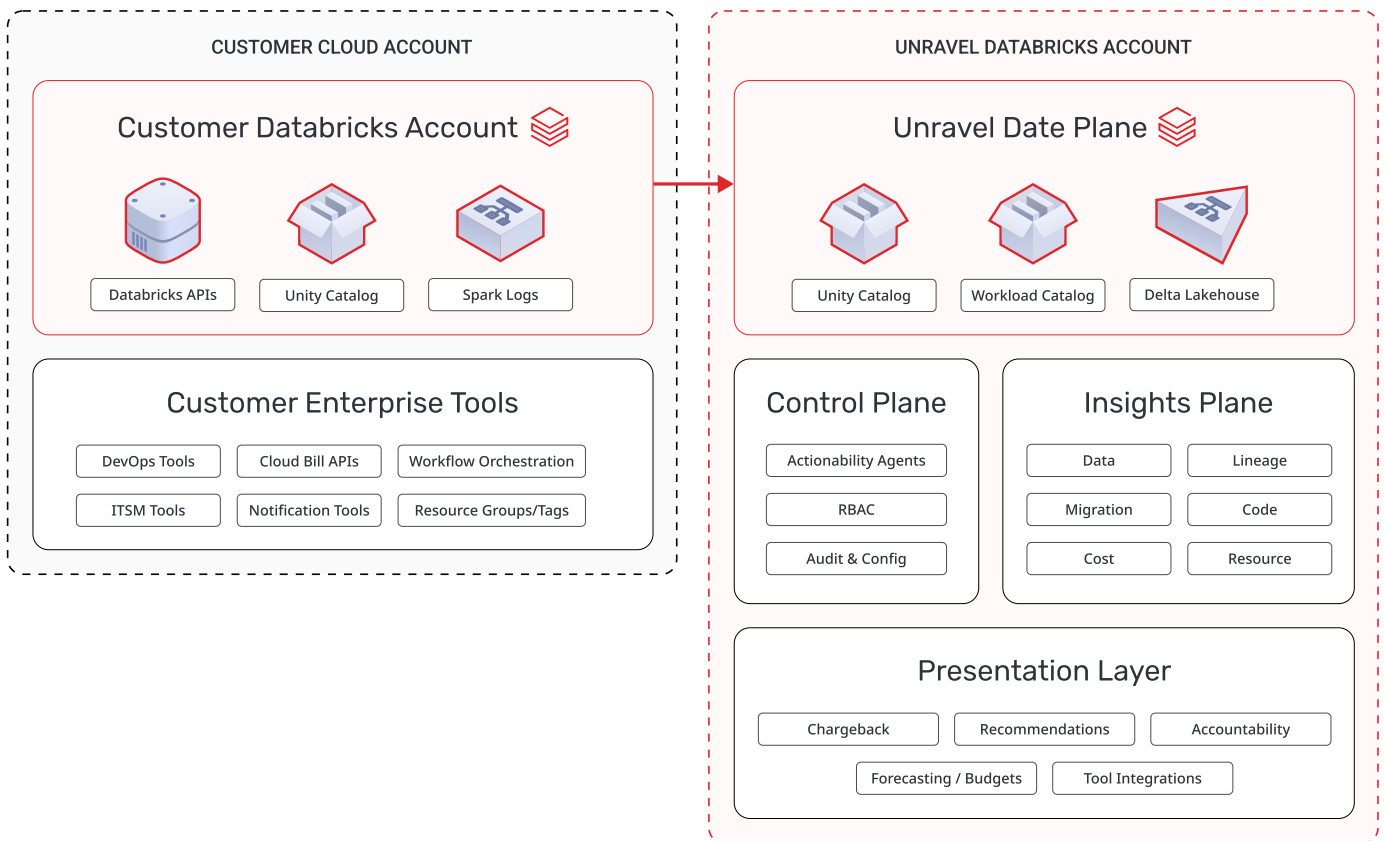
AWS Marketplace

Azure Marketplace

SaaS Deployment

### Security & Compliance

- SOC 2 Type II certified
- Enterprise-grade security controls
- Integration with existing security frameworks



## Core Capabilities

### Comprehensive Cost Management

- **Real-time Cost Visibility:** Granular breakdown of DBU usage, compute costs, and resource consumption by user, team, job, and application
- **Predictive Forecasting:** AI-powered spend predictions with high accuracy for budget planning
- **Cost Optimization:** Automated recommendations for cluster right-sizing, code optimization, and data layouts
- **Chargeback & Showback:** Business-context cost allocation by project, department, or business unit

### Performance Optimization

- **AI-Driven Tuning:** Intelligent recommendations for Spark configuration, cluster settings, and resource allocation
- **Query Optimization:** SQL and code-level performance improvements with specific, actionable insights
- **Bottleneck Detection:** Proactive identification and resolution of performance constraints
- **Capacity Planning:** Automated forecasting of resource needs based on historical demand patterns

### Data Quality & Reliability

- **End-to-End Monitoring:** Comprehensive observability across data pipelines and applications
- **Anomaly Detection:** ML-powered identification of data quality issues
- **SLA Management:** Automated tracking and alerting for data delivery commitments
- **Lineage Tracking:** Complete visibility into data flow and dependencies

### CI/CD Integration

- **Code Review Automation:** AI-powered analysis of code changes for performance and cost impact
- **Pre-Production Optimization:** Early detection and fixes of inefficiencies during development
- **DevOps Integration:** Seamless integration with GitHub, Azure DevOps, and other CI/CD tools
- **Developer Insights:** Real-time feedback on code efficiency and financial impact

## Advanced AI Features

### Purpose-Built AI Insights Engine

- Trained on 50+ million data pipelines and queries
- Dynamic code analysis considering data layout, table structure, and metadata
- Runtime performance analysis for enhanced recommendations
- Continuous learning from your environment's patterns

### Intelligent Automation

- **Auto-Actions:** Automated remediation for common performance and cost issues
- **Smart Alerts:** Context-aware notifications with recommended actions
- **Guardrails:** Proactive prevention of cost overruns and performance degradation

## Databricks Integration

### Native Platform Support

- **Unity Catalog Integration:** Seamless governance and metadata management
- **Lakehouse Monitoring:** Enhanced observability for Delta Lake and Iceberg tables
- **Multi-Workspace Visibility:** Centralized monitoring across all Databricks instances
- **Databricks Runtime Support:** Compatible with all supported runtime versions

### Comprehensive Coverage

- SQL, Python, Scala, and Java workload optimization
- Streaming and batch processing insights
- Machine learning pipeline monitoring
- Interactive notebook performance analysis

## Technical Specifications

### Supported Platforms

- Databricks on AWS, Azure, and GCP
- All Databricks runtime versions
- Unity Catalog and legacy Hive metastore

### Integration APIs

- REST API for custom integrations
- Webhook support for external systems
- SAML/SSO authentication

### Monitoring Capabilities

- Real-time metrics collection
- Historical trend analysis
- Custom KPI tracking
- Automated reporting

# Frequently Asked Questions

## Why do enterprises consider Unravel one of the best solutions for Databricks data observability?

Unravel's AI-native data observability platform optimizes performance, accelerates insights, and reduces cloud costs for data-driven enterprises. Unlike monitoring-only solutions, we provide actionable automation and optimization for complex data pipelines handling massive data volumes across modern data stacks.

## How does Unravel's Databricks optimization platform differ from competitors?

Unravel excels across all three FinOps stages: inform, optimize, and operate. We integrate app-level usage data for detailed chargeback at workspace, cluster, and user levels. Our AI identifies root causes across queries, compute, and storage, delivering specific recommendations that guarantee actionable cost savings.

## What kind of cost savings can organizations expect?

Organizations typically cut cloud data costs by up to 70% within six months while maintaining performance. Our FinOps Agent automatically finds optimization opportunities and implements governance policies, delivering measurable ROI.

## How do Unravel AI Agents enhance Databricks optimization?

Three AI-powered agents automate optimization: FinOps Agent delivers 35% more workloads for the same budget; DataOps Agent cuts firefighting time by 90%; Data Engineering Agent automates performance tuning, code reviews, and debugging.

## Is Unravel suitable for organizations with hybrid data environments?

Yes. Unravel works across hybrid and multi-cloud environments with full support for Databricks, Snowflake, BigQuery, EMR, and other platforms. We cover AWS, Google Cloud, Azure, and on-premises deployments completely.

## How can Unravel's platform be deployed?

Flexible deployment options include: fully managed SaaS for rapid implementation, cloud marketplace for streamlined procurement, or on-premises deployment within your VPC for maximum control and data residency requirements.

## How long does implementation take?

SaaS deployments run in minutes to hours once security approvals are complete. On-premises or VPC deployments typically require 1-2 weeks plus time for security reviews. Most organizations see value within days after completing internal approvals.

## Are cloud compute and storage costs included in Databricks Units (DBUs)?

No. DBUs are pricing units for Databricks platform capacity. Cloud compute instances and storage are priced separately by AWS, Azure, or GCP. Use cloud pricing calculators to estimate total costs alongside DBU pricing.

## STOP WASTING DATABRICKS SPEND. ACT NOW WITH A FREE HEALTH CHECK

Optimize your Databricks spend,  
boost performance, and  
increase ROI

Request your free report today at  
[unraveldata.com/health-check-demo/](https://unraveldata.com/health-check-demo/).

### About Unravel Data

Unravel Data is a data observability and FinOps platform that provides full-stack visibility, AI-powered recommendations, and actionable automations to help optimize the performance, cost, and reliability of modern data applications.

For more information, visit [unraveldata.com](https://unraveldata.com).