



Building a Semantic Lakehouse with AtScale and Databricks

SEMANTIC LAKEHOUSE FOR BUSINESS INTELLIGENCE

The Databricks Lakehouse combines the best elements of data lakes and data warehouses to deliver the reliability, strong governance, and performance of data warehouses with the openness, flexibility, and machine learning support of data lakes.

The AtScale Semantic Layer stands independent from consumption tools – centralizing governance and control while enabling decentralized analytics consumption and data product creation.

REMOVING THE OPTIONAL SERVING LAYER AND UNLEASHING THE POWER OF THE LAKEHOUSE

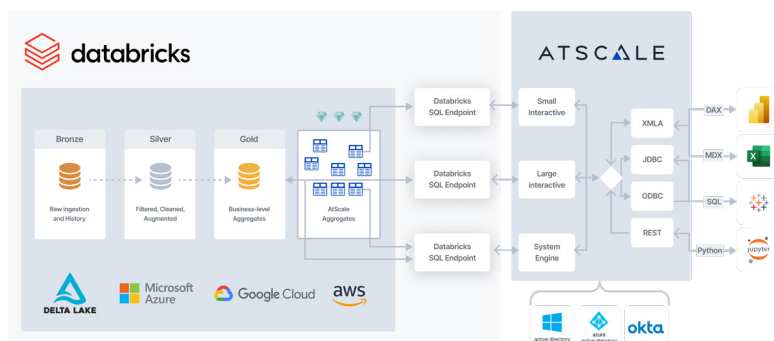
AtScale delivers a business-oriented semantic layer that sits on top of the Databricks Lakehouse. AtScale intelligently leverages Databricks to enable users to run low latency BI directly on the Delta Lake.

AtScale drives analytics workloads to Databricks SQL endpoints and clusters to deliver sub second query performance by automating the creation and maintenance of aggregate tables in Delta Lake.

Organizations spend more time delivering insights and less time maintaining multiple data platforms, maintaining multiple versions of the truth in each and every BI tool.

KEY ANALYTICS BENEFITS








- Business metrics stay consistent across the organization.
- Organizations don't have to maintain multiple data platforms.
- Promotes self-service with business-friendly semantics to drive more demand to Databricks.
- Insights are delivered live through preferred BI tools, including Excel.
- Security, compliance, and governance policies are Enforced.
- Unifies Business & Data Science teams by combining descriptive & predictive analysis in one interface.





AtScale helps Databricks customers build world-class BI and AI/ML programs while leveraging the full flexibility and capability of Databricks lakehouse.

THE ATSCALE ON DATABRICKS ADVANTAGE

-  **Semantic Layer**
Establish a single view of critical business metrics and establish common analytics vocabulary across all data consumers.
-  **No-Code Modeling**
Build sophisticated models across disparate data sources with no SQL. Rapidly iterate models that can be shared across analysis teams.
-  **Semantic Lakehouse**
Support both BI and AI/ML use cases on a single Lakehouse Platform, removing the need for optional serving layers and additional data warehouses.
-  **Security and Governance**
Extend role-based security and governance policies of source data to analytics consumption.
-  **Bring Your Own BI**
Access AtScale models from your existing tools including Tableau, Power BI, Excel, and Looker without having to worry about the complexity of the tools query language.
-  **AI/ML Ready**
Access governed data sets from semantic layer with python. Publish model results back to semantic layer for distribution in BI dashboards.
-  **Integrate New Data Sources**
Enhance analyses with external data sources by blending enterprise data with third-party cloud data services within the AtScale model.

ABOUT ATSCALE

AtScale enables smarter decision-making by accelerating the flow of data-driven insights. The company's semantic layer platform simplifies, accelerates, and extends business intelligence and data science capabilities for enterprise customers across all industries.