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The Power of the Semantic Layer in Financial Services

The financial services industry is facing unprecedented change, driven by evolving customer expectations, regulatory pressures, and the growing importance of data-driven decision-making. To thrive in this environment, financial institutions must leverage their data to deliver exceptional customer experiences, gain a competitive edge, and foster innovation. The **semantic layer** emerges as a critical tool, simplifying data access, fostering trust in analytics, and enabling self-service capabilities.

The Role of a Semantic Layer

A <u>semantic layer</u> provides a unified, business-friendly representation of data, enabling organizations to simplify data complexity, enhance decision-making, and drive collaboration. Financial Institutions leverage a semantic layer to instill trust in Generative AI and analytics-driven KPIs. A semantic layer can yield:

\$2 MM

3X ROI

Analytics project cost savings

IT investments

EXPERT INSIGHTS

"Customer experience is critical. Customers demand diverse, flexible options, and organizations must leverage data to meet these needs."

– Ramdas Narayanan, Bank of America

Use Cases for Financial Services



Portfolio Management and Research: Combine diverse data sources to identify trends, backtest strategies, and deliver personalized investment solutions.



Risk and Regulatory Analytics: Use integrated datasets to assess risk exposure, run models, and ensure compliance with regulatory requirements.



Customer 360 and Marketing: Create a comprehensive customer view by integrating internal and external data to personalize products, optimize journeys, and drive retention.



Fraud Detection: Semantic layers integrate AML, KYC, and transaction data to enhance anomaly detection and prevent financial crime.

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ROI of Semantic Layers in Financial Services

A semantic layer offers several benefits to retailers, including:

- Optimized Cloud Costs: Semantic layers <u>reduce cloud</u> <u>analytics costs over 3x</u> by optimizing compute usage, improving query performance, eliminating redundant data copies, and streamlining data preparation.
- Optimized Human Capital Costs: Using a semantic layer reduces the effort for a typical 1,000-hour analytics project by nearly half. An average organization has 25 such projects annually, estimating <u>savings of \$2.3 million</u> <u>annually</u>.
- Trusted Results through Data Governance: AtScale's semantic layer delivers result consistency and improves text-to-SQL performance, <u>achieving nearly 100% accuracy</u> by providing analysts and LLMs with a common business language mapping diverse data into familiar terms like "product," "customer," and "revenue."
- Improved Customer Outcomes: <u>Accelerate time-to-insight by 4x</u>, enabling proactive decision-making that enhances customer experiences.

EXPERT INSIGHTS

"Driving an analytics transformation requires both technical capabilities and a strong data-driven culture within the organization."

– Jon Francis, PayPal

Related Resources

- Practical Guide to a Semantic Layer
- The Business Impact of Using a Semantic Layer for AI and BI
- Buyer's Guide to a Semantic Layer

ABOUT ATSCALE

AtScale transforms the way financial institutions leverage data by enabling smarter, data-driven decisions. Its **Universal Semantic Layer** simplifies data complexities, promotes governance, and empowers self-service analytics for AI and BI initiatives. To learn more, visit www.atscale.com and follow us on LinkedIn.