Kinetica for Banking and Capital Markets

Volatile economic conditions, fierce competition, and growing technology demands are challenging banking and capital markets organizations. Modernizing and simplifying analytics infrastructure can help organizations to keep up with the speed, scale, and complexity of financial data and deliver differentiated services to customers. The Kinetica Streaming Data Warehouse unifies streaming, historical, location analytics with machine learning on a single platform to power real-time trade and risk decisioning applications that increase revenue and improve compliance.

REAL-TIME PORTFOLIO RISK ANALYSIS

- Converge streaming and historical analytics with integrated pricing and risk models in a single platform to unlock real-time portfolio risk analysis and keep up with the speed of the market.
- Generate on-demand results for multiple models to minimize downside and maximize revenue to meet both business and regulatory requirements.
- Perform scenario analysis at scale to test portfolio risk exposure and make data-driven decisions around future trades.

ENHANCED MORTGAGE RISK AND OPPORTUNITY ANALYSIS

- Beat the competition with faster, more accurate modeling and valuation of real estate assets at scale.
- Enrich mortgage default risk analysis with diverse, streaming, historical, and geospatial data sources to uncover interesting investment opportunities.
- Apply statistical models for added insight into the right assets to buy and sell.
- Analyze different scenarios in detail to make higher ROI decisions, reduce risk, and generate better returns.

ACCELERATED TRANSACTION COST ANALYSIS AND TRADE OPTIMIZATION
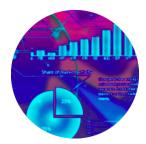
- Generate on-demand transaction cost analysis (TCA) reports to determine the effectiveness of complex transactions.
- Deliver fast analytics on streaming and historical trade data to understand trade execution, timing, and cost.
- Help traders to reduce slippage and maximize trade revenue while satisfying best execution regulations.
- Use the power of machine learning to run models on TCA data and deliver predictive insights that improve future trades.
- Enhance client-facing TCA applications with Kinetica to deliver a self-service experience that stands out.

DYNAMIC SYSTEMIC RISK ANALYSIS

- Accelerate complex systemic risk calculations that analyze vast amounts of disparate data to meet critical regulations like Fundamental Review of the Trading Book (FRTB) and Basel Committee on Banking Supervision's standard number 239 (BCBS 239).
- Leverage fast results to run more simulations and stress tests in order to gain a better understanding of the organization's risk exposure.
- Perform "what if" analysis at scale and adjust variables for market conditions, volatility, and factors to more precisely model the impact of real-world events on systemic risk.