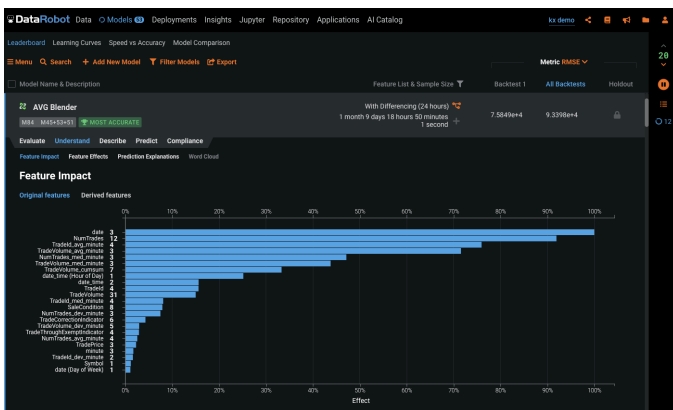


# Kx & DataRobot

## Time-Aware, AI-Driven Innovation Strategies at Velocity

Sound predictions of demands and trends are no longer luxury items but a necessity, given increasing competitive and environmental pressures. Time-aware AI and machine learning modeling have traditionally been done manually by small teams across disparate data sources and with a patchwork of tools, leading to inefficient, slow, and limited strategy impacting insights. With competition becoming more intense and top line growth harder to achieve than ever, the firms that fully embrace AI and shift toward automated and highly scalable modern processes will not only thrive but dominate in their ultra-competitive environments.

With Kx and DataRobot, augmenting existing forecasts with AI has never been faster, easier, or more powerful. Data acquisition and integration strategies are now unified alongside hundreds of powerful time-aware machine learning algorithms, eliminating the barriers to build, scale and integrate AI-driven decision workflows across your value-chain at velocity.



## The World's Fastest Time-Series Database Meets the World's Most Automated, Time-Aware AI Solution

Kdb+, is the world's fastest time-series database and the leader in high performance, in-memory computing, streaming analytics and operational intelligence. It offers advantages over other time-series databases, because kdb+ can process streaming, real-time, and historical data in one system.

DataRobot's Time Series AI solution automates every step of the time-aware machine learning process from feature engineering to building and deploying, as well as operationalizing, monitoring, and maintaining time-aware machine learning models. Deep, sophisticated advanced data scientist techniques unleash analytics teams, forecasting teams, and quant teams to create multiple and varied interpretations of the future, embedding time-aware AI into existing tools and processes faster and more accurately than with manual methods. With intelligent detection and implementation of time series modeling best practices and built-in guardrails, DataRobot's Automated Time Series solution empowers those without deep expertise to build and deploy advanced time-aware machine learning models so that even novice users with no domain expertise can extract value.

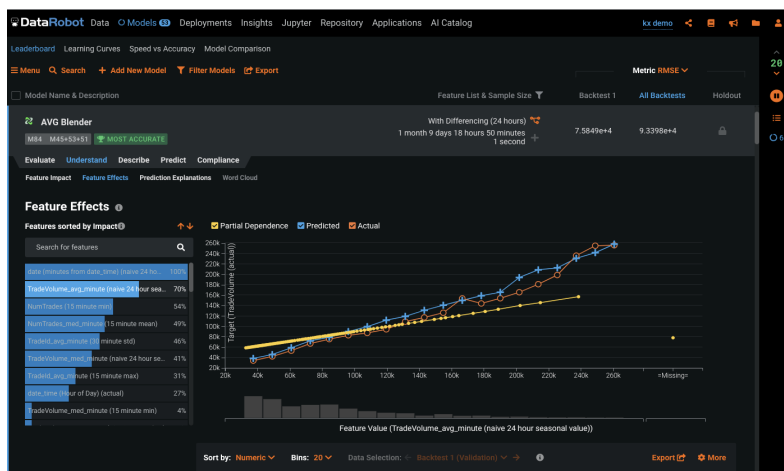
**Financial Services** - Kdb+ and DataRobot fast track the implementation of AI-driven investment strategies across all asset classes (equities, fixed income, FX and commodities), as well as use cases in key activities, including research, sales, trading, operations, risk management, compliance, and surveillance. They also scale for enterprise-wide applications that support thousands of users, including front-, middle-, and back-office applications for game-changing, AI-driven capital market strategies.

**IoT** - The combination of kdb+ and DataRobot Automated Time Series unlocks the true potential of IoT data by rapidly searching through the vast array of data to discover meaningful patterns and fuel impactful predictive forecasts across a multitude of IoT uses. These include everything from freight monitoring and fleet management in transportation to utilities and smart grids for electricity, gas, and water, as well as transportation facility automation, agriculture field monitoring, in-store contextualized marketing for retail, and much more. The flexibility and robustness of kdb+ and DataRobot ensure that IoT data can be fully harnessed.

**Manufacturing and Production Management** - Incorporating AI across discrete manufacturing, process manufacturing, manufacturing operations and production asset management has never been easier with kdb+ and DataRobot Automated Time Series. With the combination of the two technologies, AI can be applied to proactively forecast faults, production errors, production quality, and material defects, while also forecasting defective products and optimizing raw material mixtures or process optimization.

The integration of kdb+ and DataRobot's Automated Time Series solution leverages the speed and scale of kdb+ to automatically create, deploy, manage, and monitor time-aware machine learning models. The nanosecond precision that kdb+ is known for can now be fully harnessed through DataRobot's Automated Time Series solution to fuel the creation of macro, or millisecond, time-aware machine learning models that are highly accurate, even in changing conditions.

The flexibility of kdb+ and the DataRobot Automated Time Series Solution allows clients to build, deploy, monitor, and manage sophisticated machine learning models and AI applications quickly and easily across multiple industries and departments.



## The Combined Solution Delivers:

### Modern, Unified, Time-Aware AI Solution:

Integrate database, model creation, deployment, management, and monitoring of time-aware models in one system, and reduce lag time by combining back-end database and front-end automated AI.

### Ultimate Scale and Automation to Forecast Millions of Items:

Rapidly search for hidden patterns across enormous datasets and quickly build time-aware machine learning models at the macro or view.

### Extreme Flexibility, Speed, and Scalability:

Tackle extremely large quantities of data more efficiently and create model factories faster in order to develop and execute AI-driven investment strategies and take advantage of opportunities in the market as they arise.

### Accelerated Time-to-Value:

The speed of kdb+ coupled with the speed of being able to quickly build and release time-aware machine learning models into production in highly volatile and time-sensitive markets gives an immediate edge over rival firms.

### Unprecedented Accuracy and Precision:

Highly configurable for real-world use-cases. Handle complex external real-world factors elegantly with nanosecond data capture precision and advanced time-aware AI modeling and monitoring.

### Effortless, Regulation-Ready Documentation and Model Risk Management:

Automatically create benchmark and challenger models and "click-of-a-button" comprehensive model documentation that covers the entire process from data through to deployment for streamlined model risk validation and management.

"AI-driven forecasting is the future, and the combination of DataRobot Automated Time Series solution and the kdb+ database, is leading the way. Firms deploying DataRobot and Kx together will stand to gain immediate and unprecedented scale and speed over rival firms."

- Executive at a large global bank

Learn more about DataRobot and Kx



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