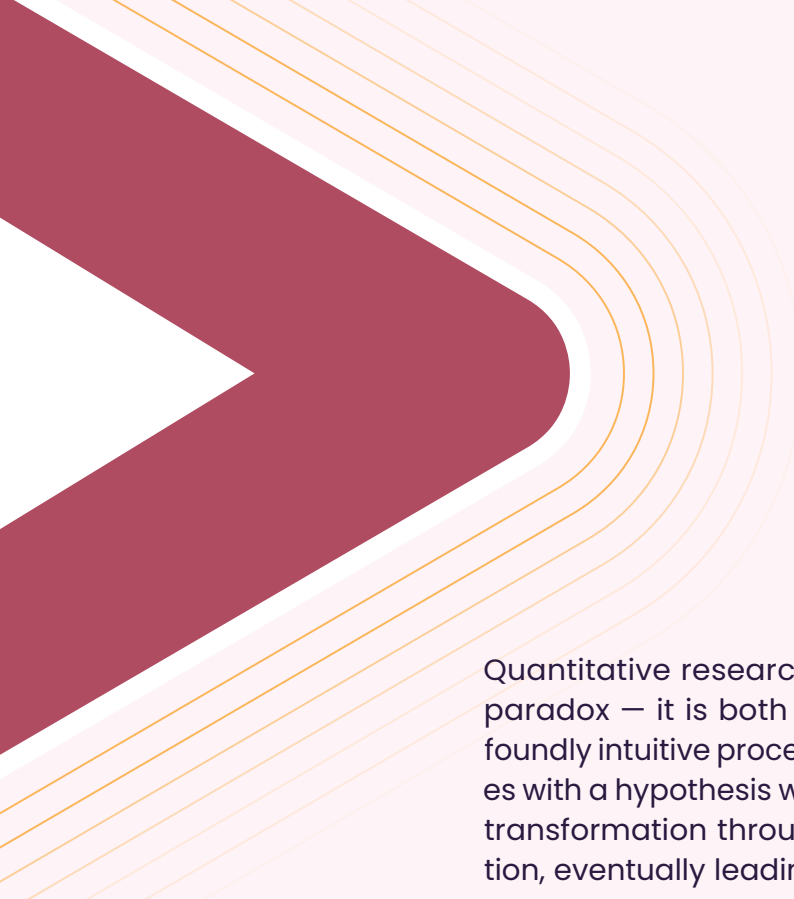


Atoti For Quantitative Trading

Unlock the true potential of your trading strategies with Atoti's powerful features:

- *Perform exploratory data analysis freely on massive trading datasets*
- *Easily pivot millions of rows and hundreds of thousands of features visually using Python*
- *Drastically cut down time-to-market from weeks or months to days*
- *Experience the power of Atoti today with the free Community Edition*





Quantitative research operates under a fascinating paradox – it is both a scientific exercise and a profoundly intuitive process. Research typically commences with a hypothesis which gains depth and undergoes transformation through analysis and data examination, eventually leading to its validation or refutation.

When you employ a team of brilliant individuals to devise your trading strategy, it is essential to empower them to seamlessly follow their hunches and analyses through to completion. Allowing them to create the right tools for the task is crucial, as it dictates the speed at which they can transition from intuition to actionable insights to decisive actions.

Speed is of the essence in quantitative trading, as the signals you identify hold value for only a brief period. Prolonged analysis not only results in missed opportunities but also entails a wasteful expenditure of precious man-hours and resources.

“The full process goes from researching to spotting an opportunity or issue with the algo, finding a new idea, implementing it, backtesting, and putting it in production. With the help of Atoti, the time-to-market has been reduced from months to days.”

Senior Quant Trader at a top-10 High Frequency Trading firm

Marrying Science And Intuition

In the world of quantitative analysis, quants often face the challenge of not knowing precisely where the insights they seek lie within the vast sea of data. Sometimes they will not even have a precise idea in mind, simply looking to see where data trends and their train-of-thought will take them, a process usually referred to as exploratory data analysis.

However, existing analytics tools often hinder this process. Struggling with large datasets, making it cumbersome to load additional data, and necessitating a switch to other software for visualization are just some common pain points. This leads to wasted time and missed opportunities.

The problem can be attributed to most data analysis tools not being equipped to handle the immense volume of data prevalent in quantitative trading. They fail to facilitate the freeform, unrestrained, and interactive cause/effect analysis that is essential for uncovering meaningful insights.

Atoti offers a powerful solution for this predicament. With Atoti, you can seamlessly audit your machine-learning behavior post-trade, identify outliers in decision-making, and utilize these findings as valuable new training input. Atoti serves as a flexible analysis layer, accelerating the audit and research process, independent of your models, backtesting and valuation engines. Quants gain the freedom to explore data without constraints, ensuring valuable insights are discovered and transformed into actionable strategies.

Freeform, Limitless, Precise And Collaborative

Atoti has been specifically designed, tested and proven to handle massive financial datasets. It caters to diverse clients, ranging from large high-frequency trading firms to multi-strat, global macro, crypto trading and quantitative funds. Combining the strengths of Pandas, Numpy, Vaex, Matplotlib, Dash and Plotly into a single platform, Atoti goes beyond expectations by intuitively and incrementally analyzing extensive datasets with lightning-fast reactivity and real-time data integration.

Atoti enables the freeform, limitless, but deeply precise data analysis of technical and fundamental indicators that quants and traders need to explore features like volatility, relative strength index (RSI), dividend yield or any custom attribute.

It frees them from the usual constraints while ensuring that any insight gained is science-based and any strategy developed can be thoroughly vetted.

A major hurdle posed by traditional Python tools is that they do not make it easy to share insights or to present data in a way that is meaningful to others not familiar with the dataset. This is an essential capability: if quants cannot easily ask their colleagues for verification or communicate their findings quickly and efficiently to their managers, time is wasted, and valuable insight may even be lost in translation.

Atoti solves this issue by integrating a rich, interactive visualization system that can be shared with others with just a click. It is not just a static view that is shared, but a fully interactive dashboard where colleagues and managers can explore the data on their own, check the findings and add their own insights.

Build And Shape Precisely To Your Preferences

Atoti is a versatile toolbox where quants and traders can find the capabilities that are missing from other libraries and integrate with their other tools to build up their own workflow. Atoti does not replace your risk engine, or trading tools or backtesting system. It seamlessly integrates with existing tools, acting as a bridge and enhancing their capabilities.

Atoti offers a Python environment where quants and traders can easily:

- Load vast amounts of data, comprising hundred of millions of lines and attributes, and kickstart their analysis in under 5 minutes
- Conduct interactive analysis on large datasets, enabling swift exploration and insights
- Effortlessly add additional data whenever required, with the process taking mere second
- Define features, hierarchies, and buckets once, unlocking infinite possibilities for slice-and-dice analysis
- Leverage the web-based UI, tapping into the powerful backend for in-depth, meaningful data deep-dives

The game-changer with Atoti lies in its interactivity. Armed with advanced data modeling in Python, revolutionary support for incremental updates and an aggregation engine eliminating the need for pre-aggregation, quants and traders can effortlessly navigate through data to look for causes and effects. They can set up dynamic views that update in real time as they work, diligently pursue their ideas to their endpoint, and perform proxi-backtests – all in a single session, within the same environment in just minutes.

Atoti empowers users to build their desired workflows, providing a comprehensive platform where insights flourish and strategies thrive without disrupting the existing tools and systems they rely on.

Interactive Views That Follow Your Analysis

Atoti UI elevates analysis to new levels of efficiency. It is a fully-fledged visualization suite seamlessly integrated into Atoti that empowers you to craft rich, meaningful and interactive dashboards with ease. By combining Python for defining features, hierarchies, and buckets, along with intuitive point-and-click functionality for creating views, slicing, dicing, and filtering, Atoti UI ensures a smooth and immersive user experience. The UI updates automatically in real time as you manipulate, load and refresh the data in your notebook.

Sharing insights with colleagues is effortless. You can easily distribute your views, bookmark key findings, and preserve the dashboard layouts you wish to revisit, ensuring seamless collaboration and maximizing productivity.



Try It For Free

Don't just take our word for it. Experience Atoti firsthand with our free Community Edition. Take full advantage of Atoti's capabilities until you are convinced and ready to seamlessly integrate it into your data analysis workflow.

Having the right intuition is valuable, but its true potential is realized when you can swiftly validate and implement it. With Atoti, you can transform weeks of work into mere hours and months of research into just days. Try Atoti today and unlock the power of accelerated data analysis and decision-making.



Need More Details
Or Want To Ask Us A Question?

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About ActiveViam

Founded by industry experts, ActiveViam understands the data analytics challenges faced by financial institutions across trading desks, risk, and compliance. ActiveViam pioneered the use of high-performance analytics in finance, helping the largest investment banks, asset managers and hedge funds make better decisions, explain results with confidence, and simulate the impact of their decisions.

ActiveViam's mission is to deliver train-of-thought analysis on terabytes of data in the most cost-effective way so clients can explain their results with confidence and model the scenarios that will optimize their business. ActiveViam specializes in risk data analytics for one of the fastest-moving and most regulated industries with a presence in the world's leading financial marketplaces – London, New York, Singapore, Sydney, Hong Kong, Paris and Frankfurt.

ActiveViam's purpose-built analytics technology has been recognized as "FRTB Product of the Year" by Risk and as the "Best Sell-Side Credit Risk Product" by Waters Technology.

For information please visit

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