

# Software AG and Mosaic Data Science

**Partnering to provide best-in-class advanced analytics**



## Make your data work harder

Imagine what you could do if you could harness high-value, high-velocity enterprise data and get instant access to it in real time ... you could predict the behavior of just about anything.

### Companies are spending big on big data—are they getting everything they need?

Advancements in data collection and integration technology allow companies to gain access to information previously thought impossible. With this wealth of data comes the need to analyze it in real time so companies can become data-driven decision-makers.

Mosaic Data Science and Software AG have partnered to provide the ability to detect and act on perishable insights.

Mosaic Data Science provides deep expertise around advanced mathematical modeling techniques, including predictive analytics and advanced optimization.

Software AG offers the world's first Digital Business Platform, including Apama streaming analytics and Terracotta in-memory data management, which allows companies to analyze complex event processes and data in flight—while holding massive amounts of data in low-cost memory to provide essential context.

Applying this methodology and technology to volumes of data in real time creates opportunities for powerful optimization that customers from across industries can apply to multiple challenges.

When a business has the ability to apply this technology and methodology to volumes of data, in real time, it results in opportunities for powerful optimization.

### Key benefits

Here are just a few potential benefits of working with Mosaic Data Science and Software AG:

- Increase revenues and decrease costs—sometimes in the millions of dollars or more
- Improve the ROI of your advanced technology investments
- Predict the behavior of machines, customers, employees ... pretty much anything
- Make better decisions by leveraging data and predictions in real time
- Take full advantage of technologies including complex event processing, In-memory data caching and streaming analytics
- Move beyond historical BI/reporting to real-time analytics
- Build data science capabilities and shorten the data science learning curve

### The future of your business

Here are a few ways that Mosaic Data Science puts modeling horsepower behind Software AG technologies.

#### IoT predictive maintenance

Deliver huge ROI with sensor data. Respond proactively with real-time diagnostics and real-time prediction of time-to-failure.

- Conduct preventive maintenance
- Reduce risk of unexpected failure and unplanned downtime

- Minimize downtime of key equipment
- Fix problems faster

**Sales and marketing analytics**

Leverage huge volumes of streaming data on customers and prospects to provide extremely customized experiences.

- Identify customers, purchase behaviors and movement through a store or area
- Offer customized deals based on customer’s real-time location and historical purchasing behavior
- Use a customer-response model to tune content and offers

**Facial recognition**

Use facial recognition in optimizing customer experience, or in safety/security applications.

- Use for marketing, risk management, customer satisfaction
- Customers can be identified in real time to quickly customize your employees’ interaction with them

## Far greater than the sum of its parts

Software AG’s market-leading Apama and Terracotta platforms, layered with the analytical horsepower of Mosaic Data Science, result in powerful solutions with an unparalleled breadth of possibilities.

**Streaming analytics**

Software AG Apama Streaming Analytics is a market-leading platform for streaming analytics and intelligent automated action on fast-moving big data. Combining event processing, messaging, in-memory data management and visualization, this platform is the most complete solution to turn relentless data streams—like those produced by the Internet of Things (IoT)—into meaningful real-time actionable information and optimized decisions.

**BigMemory**

Software AG’s Terracotta In-Memory Data Management Platform, featuring Terracotta BigMemory, is the first-choice platform for distributed in-memory data management with extremely low, predictable latency at any scale.

**Predictive and advanced analytics**

Mosaic builds solutions that use real-time and predictive analytics to optimize business decisions.

- Predictive insights based on historical data trends applied to streaming data
- Optimization of business processes and decisions
- Recommendation engines

## Mosaic Data Science: Driving success with Software AG solutions

Leveraging the Software AG digital business platforms of Apama for big data streaming analytics and Terracotta for in-memory data management, Mosaic Data Science applies its methodologies to help organizations achieve success faster. Collectively, Software AG and Mosaic Data Science teams of experts provide technology solutions, cost-effective, high-quality consulting, managed services, enablement and e-learning services for organizations of all sizes. These solutions help reduce costs, improve performance and help businesses respond to changing needs with agility.

Mosaic Data Science builds solutions that use real-time and predictive analytics to optimize business decisions. Founded as Mosaic ATM in 2004 and focused on air traffic management, the company expanded its offerings vertically and horizontally to serve its current wide range of customers across industries.

Mosaic Data Science staff offers a high proportion of advanced degrees and a broad range of skills and experience, including statistics, operations research, computer science, systems engineering, physics, aerospace engineering, information technology, cognitive and human factors engineering and more. The company is headquartered in Leesburg, Virginia in the U.S., with additional locations around the United States. Learn more at [www.mosaicdatascience.com](http://www.mosaicdatascience.com).



Find out how to power up your Digital Enterprise at [www.SoftwareAG.com](http://www.SoftwareAG.com)

**ABOUT SOFTWARE AG**

Software AG helps organizations achieve their business objectives faster. The company’s big data, integration and business process technologies enable customers to drive operational efficiency, modernize their systems and optimize processes for smarter decisions and better service. Building on over 40 years of customer-centric innovation, the company is ranked as a “leader” in 14 market categories, fueled by core product families Adabas-Natural, Alfabet, Apama, ARIS, Terracotta and webMethods. Learn more at [www.SoftwareAG.com](http://www.SoftwareAG.com).

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