Empowering Smart Business Decisions with Machine Learning & Data Automation

Flyer

Overview

Data is the lifeblood of any business. Without data, it's impossible to run operations, assess performance, get accurate answers to inquiries, and report to stakeholders. But the value in data is not in having it, it's in how you use it. Many organizations suffer from a lack of trust in their data, they struggle to manage a wide variety of data sources – many of which are extremely complex, and to top it all off, data literacy is at a shortage. Further, making quick and effective business decisions is imperative for any company in this competitive world to get ahead of the pack. This is where an end-to-end data analytics transformation can help.

Data Analytics Is The Core Of All Digital Transformation Initiatives

Smart data is accurate, trusted, governed, secure and easily accessible data. The right decisions are made when people across the entire organization can access smart data.

Altair & Tech Mahindra transform how insight is generated to make better decisions from smart data. Our solutions are designed so that business analysts and data scientists can partner with business teams to collaboratively generate and share insight. Self-service data automation and machine learning (ML) replaces the complexities often seen in data analytics. As a result, people across the entire organization can realize the value of powerful analytics.

Collaborations that Create the NXT Possibilities

Tech Mahindra and Altair's partnership combines Tech Mahindra's ability to deliver enterprise-wide digital transformation programs helping customers derive competitive advantage by generating actionable insights from their data with Altair's best of breed cloud native open architecture data analytics and AI portfolio. We enable the convergence of simulation, HPC and AI solutions to help transform enterprise decision making. This ability to achieve this convergence is one of the key differentiators of this partnership.

Together with Tech Mahindra and Altair's expertise, we can provide a turnkey solution to solve the most complex digital transformation including areas around risk mitigation, regulatory oversights, new customer engagement channels, operational insight, and more. Altair's patented units-based licensing system, and Units, presents yet another differentiator that will democratize and simplify solution adoption.

Our Solution

Enterprise-class Data Transformation:
Most complete data transformation and automation solution delivering self-service data preparation from semi-structured to automation

Transparent AI and Machine Learning:
Leading data science solution with highest quality decision tree and scoring capabilities

Data Visualization:
Best-in-class stream processing and visualization is the only technology that enables threading of data at various frequencies to provide BI dashboards, real-time dashboards and control panels

Cloud-Native Enterprise AI and Analytics:
Harness the full power of artificial intelligence (AI), analytics, and the internet of things (IoT) with dynamic tools and a collaborative environment

Seamlessly integrated ML and MLOps:
Empower everyone to augmented, data-driven decisions Our easy to use, no code data transformation, ML, and real-time data visualization and stream processing solutions enable executives, financial analysts, and data scientists to collaboratively use data analytics and AI to discover data-driven insights, gain competitive advantages and drive next-level business results.

Success Stories

Financial Services / Lending Industry – Predictive and prescriptive analytics for faster, accurate decisions

Challenge
Need to identify in near- or real-time accounts at risk of defaulting

Solution
o Knowledge Studio segments data and removes biases; Visually intuitive strategy trees prescribe business treatments based on scorecard results
o Exhaustive inbuilt and open source-based ML capabilities model details needed to make informed lending decision

Benefits
Reduced development time and greater accuracy

Manufacturing Industry – Anomaly detection and predictive maintenance

Challenge
o Using machine sensor data sources to detect anomalies and predict future failures
o Ensure maximum availability of critical manufacturing systems, while simultaneously minimizing the cost of maintenance and repairs. The average factory today is 25 years old, using machinery that's ~ nine years old. Ensuring that all equipment is functioning optimally remains a key priority for manufacturers.
o Existing IoT platforms can capture data but currently lack all the predictive modeling capabilities required

Solution
o Panopticon connects to real-time streaming data to display and then feed into machine learning models which identifies anomalies live on each sensor channel
o Knowledge Studio is used to detect suspicious patterns in machine sensor data using machine learning and neural network algorithms and predict future performance states

Benefits
Increase manufacturing output, less downtime and maintenance costs

TechM NXT.NOW™ Advantages

o Diversified global player with over 20 years of data and analytics practice
o Over 10000 associates with domain led consulting focus
o Global footprints across more than 55 countries

About Tech Mahindra

Tech Mahindra offers innovative and customer-centric digital experiences, enabling enterprises, associates, and the society to Rise. We are a USD 5.1 billion organization with 145,000+ professionals across 90 countries helping 1191 global customers, including Fortune 500 companies. We are focused on leveraging next-generation technologies including Data Analytics, 5G, Blockchain, Cybersecurity, Artificial Intelligence, and more, to enable end to end digital transformation for global customers.

About Altair

Altair is a Nasdaq listed global technology company that provides software and cloud solutions in the areas of data analytics, product development, and high-performance computing (HPC). Altair enables organizations across broad industry segments to compete more effectively in a connected world while creating a more sustainable future. Altair is a leader in design and data analytics software. We're a global company with over 12,000 customers across Industry verticals with a strong presence in financial services, healthcare and manufacturing.

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