



Data and Analytics

Techlogix helps clients in developing analytics-driven solutions that elicit timely, in-depth insights from data enabling them to drive smarter decisions and actions through their enterprises. We apply advanced data analysis techniques to both structured and unstructured corporate data to deliver use-case specific solutions as well as help our clients undertake full-scale analytics transformations.

A partner who has deep experience of implementing a wide array of data and analytics solutions – from traditional Data-warehousing / BI to the latest applications of Machine Learning and cognitive computing – can help you take leadership in a globally competitive and rapidly changing business landscape!

Challenges

Is your organization doing enough with greater amounts of data it has at its disposal than ever before? Do you have a strategy to derive meaningful insights from that data and convert knowledge into action? Are your executives having a hard time adapting to an era of more data-driven decision making? Are you struggling to develop talent, business processes, and organizational savvy to capture real value from analytics?

Our Offering

Techlogix helps clients meet these challenges by infusing intelligence into all their systems and processes that make their enterprise work: from the measurement of performance indicators based on the fusion of process metrics and structured transactional data (from core systems) to mining nuggets of insights from the huge amounts of non-structured Big Data related to products or services being generated by the increased interaction with customers through web sites, social networking, and other online channels.

Techlogix has helped implement data and analytics solutions for clients in industries as diverse as Financial Services, Higher Education, Retail Sales and Distribution, Healthcare, and Manufacturing.

Our Advantage

Our expertise

Our consultants are multi-dimensional; they have skills in advanced analytical techniques, industry know-how, and experience of working on specific business areas to solve complex use cases.

Our approach

From a toolkit of tried-and-tested structured methodologies, we select the one that is best suited to a particular client's solution needs. Even so, we strive to find new and innovative ways of applying analytics to solve challenging information management problems.

Enhanced visualization capability

Our visual design and development experts ensure that any developed data visualization provides an appealing, intuitive and purposeful experience that invites and engages, and results in repeat usage.

A wide range of offerings

We offer services that can address a whole host of your needs ranging from traditional Data-warehousing / BI to applications of advanced Data Science and Machine Learning techniques.



To meet challenges posed by a full-scale analytics transformation, we help clients to:

Shape the strategic vision – We help clarify the goals of your analytics strategy, articulate the underlying business need to various stakeholders, outline a clear vision of how they will best use the solution and project the future impact on the enterprise and its people.

Streamline the data ecosystem – We build out the underlying data architecture, streamline gathering of data from internal systems and capturing of key external data for increasing the “breadth” of data, and help create an analytic “sandbox” for data scientists and analysts to conduct any conceivable analyses.



Valuable Insights

Derive Insights from data – We apply advanced data modeling techniques to derive new insights and help clients to codify and test heuristics across the enterprise.

Redesign processes – To get the right data insights into the hands of the right decision-maker, we help re-design business processes to incorporate data insights into the actual workflow.



Smarter Decisions

Build the analytics solution – Our consultants use the latest tools and technologies and our sophisticated methods to build out the appropriate solution. We modify existing applications and develop an intuitive user interface, so that the new solution is seamlessly integrated into automated workflows.

Build capability and drive adoption – We help build the capabilities of mid-level managers and executives to rely on insights from data analytics for taking smarter decisions. We enable our customers to proactively track adoption with performance indicators.



Better Outcomes

BI / Analytics and Big Data

Our consultants can help clients derive value from multiple streams of structured and unstructured data, from various internal and external sources. We specialize in identifying key performance metrics, tying them to strategic organizational goals, decomposing high-level metrics into measurable Service Level Agreements (SLAs) at the process-level. We identify analytical needs from several perspectives – management, operational, social, security, audit – and design and develop a solution to visualize these metrics. For gaining deeper insights, our consultants identify potential value in data sources and explore the data to test value-creating hypotheses. Based on confirmed value cases from this exercise, we create a solution architecture and digital solution to incorporate deeper insights into current business practices.

Master Data Management

We help organizations create one version of accurate master data for entities such as products, customers, vendors, and employees so critical to run core business processes. Our consultants outline a strategy that spells out common data formats for external and internal data creation and exchange. Processes are suitably redefined to support creation of master data and avoid redundancies. Data-cleansing and data-transformation options are outlined. We architect and deliver a best of breed solution that enables business information to be synchronized.

Data Science & Machine Learning

Our data scientists and analysts apply state of the art segmentation, patterns recognition, data mining, statistical analysis, machine learning and deep learning techniques to find patterns, correlations, trends and predict outcomes that traditional techniques cannot. These insights provide competitive edge, drive business value and identify new business opportunities. Our proven Machine Learning Methodology (MLX) checks data suitability for machine learning, identifies the features best suited for learning, selects appropriate technique(s) for model development, ensures extensive testing, and provides support for seamless operational deployment and progressive model updates and improvements.

Data Visualization & Mobile Analytics

Our forte is to utilize the most insightful visual elements to display information-rich dashboards that help key users in your enterprise to find actionable insights from traditional enterprise application data as well as streams of unstructured information from social media, market information, web logs, corporate documentation, etc. For many enterprises whose workforce is on the road and needs to access timely information from a company's back-end systems, we design a mobile analytics strategy and architect and build solutions that enable them to view analytics related to their job roles and performance right from their mobile devices.

Strategy

Strategic Vision & Objectives

Organizational goals. How will insights drive value & how will value be measured?

Capability Assessment

Assess people skills and organizational structure necessary to support analytics transformation

Setup

Architecture

Data definition, manipulation, data modeling and storage

Data Channels & Collection

Data acquisition channels & supporting platforms

Data & Analytics – Maturity Model

Visibility, Basic Analytics, Enhanced analytics

Insights & Actions

Capability Development

Plan for current capabilities to move up the analytics maturity scale

Modeling Insights

Apply different data modeling techniques to elicit new insights

Building Heuristics

Testing newly defined insights across the enterprise to validate hypotheses

IT Enablement

Discovery & Solution Design

Structured way of Requirements gathering and Solution Design

Collaborative Development & Testing

Agile Development, Doneness, Testing & DevOps

Solution Support & Application Revamp

Processes for Support, incremental Upgrade strategy

Adoption

Performance Optimization

Review, monitor and apply actionable insights to get better outcomes. Induct new skills and capabilities. Redesign processes and associated workflows

COE Establishment

Governance Plan, Standards & Guidelines, Best Practices

Our Experience

Financial

Channel Profitability, Profitability Returns, Cost Burn down, Payments & Overdue Aging

Healthcare

Patient Vitals, Discharged Patients Tracking, Medication Intolerance, Overall Health Predictions

Higher Education

Students Population, Scholarship Distribution Trend, Student Program Analysis, Faculty Classifications

Supply Chain Optimization

NPI, Order Booking & Tracking, BOM & Manufacturing, Shipping & Returns

Social

Reach, Engagement, Acquisition, Conversion, Activity, Influence, Bounce Rate

Success Stories

Supply Chain Optimization for Telecom Manufacturer

For a leading equipment manufacturer with a globally spread out supply chain, Techlogix built an Order Visibility dashboard that collects data from multiple disparate ERP systems to provide a single vantage point for gaining timely insights. Various teams – including Sales, Supply Chain, Finance, and Project Management - now have improved visibility into the complete life cycle of a customer order. Through robust tracking, the business can now monitor when key steps such as order entry, booking, picking, shipping, and invoicing have taken place. Any delay in the completion of these process steps results in automated alerts and updating of Key Process Indicators (KPIs) on the Order Visibility dashboard.

The solution improves customer service by reducing cycle time for responding to order status inquiries and by ensuring that orders are shipped on time. In the first year after the launch of this solution, our customer estimated \$2M in cost savings from a reduction in late order shipments and associated penalties.

Grade Prediction Algorithm for **AlmusNet**

Techlogix has developed a Grade Predictor module for the client's CampusOnCloud product – a cloud-based Campus Management system. Based on the grading scheme configured by an instructor for their course, the Grade Predictor selects the optimum model developed using Techlogix Machine Learning methodology (MLX). Final grades are predicted at various stages during the semester. The predicted grade report for each student includes major reasons for the prediction allowing constructive feedback that prevents drop outs reducing financial losses for institutions and stigmas for students. Where available, associated social and demographic data is included in the predicted grade report highlighting any special circumstances and overall student population trends.



About Us

Techlogix is an IT Services, Consulting, and Business Solutions company that helps its clients achieve enterprise transformation by harmonizing people, business processes, and technology. Our globally distributed development teams build high performance solutions leveraging our practice-specific delivery methodologies. Our people combine the spirit of engineering excellence with a strong commitment to deliver a delightful end-to-end customer experience. Techlogix employs approximately 300 people in 5 delivery centers worldwide.

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