

ADVANCED ANALYTICS & DATA MINING

Going beyond business intelligence, Advanced Analytics and Data Mining helps you discover relationships and trends within the data that drive your business.

Want to know more about your business, processes and customers? Need to dig deep into your mountain of data? We can help. Our staff of 40 mathematicians and analysts leverage traditional data mining tools, as well as proprietary algorithms, to define models and derive conclusions.

ADVANCED TOOLS, BROAD EXPERIENCE

As employees of the organization that developed the award-winning Systat application, our consultants have access to the complete library of statistical tools used by more than 360,000 Systat customers worldwide, including top corporations, government agencies and major academic and research institutions.

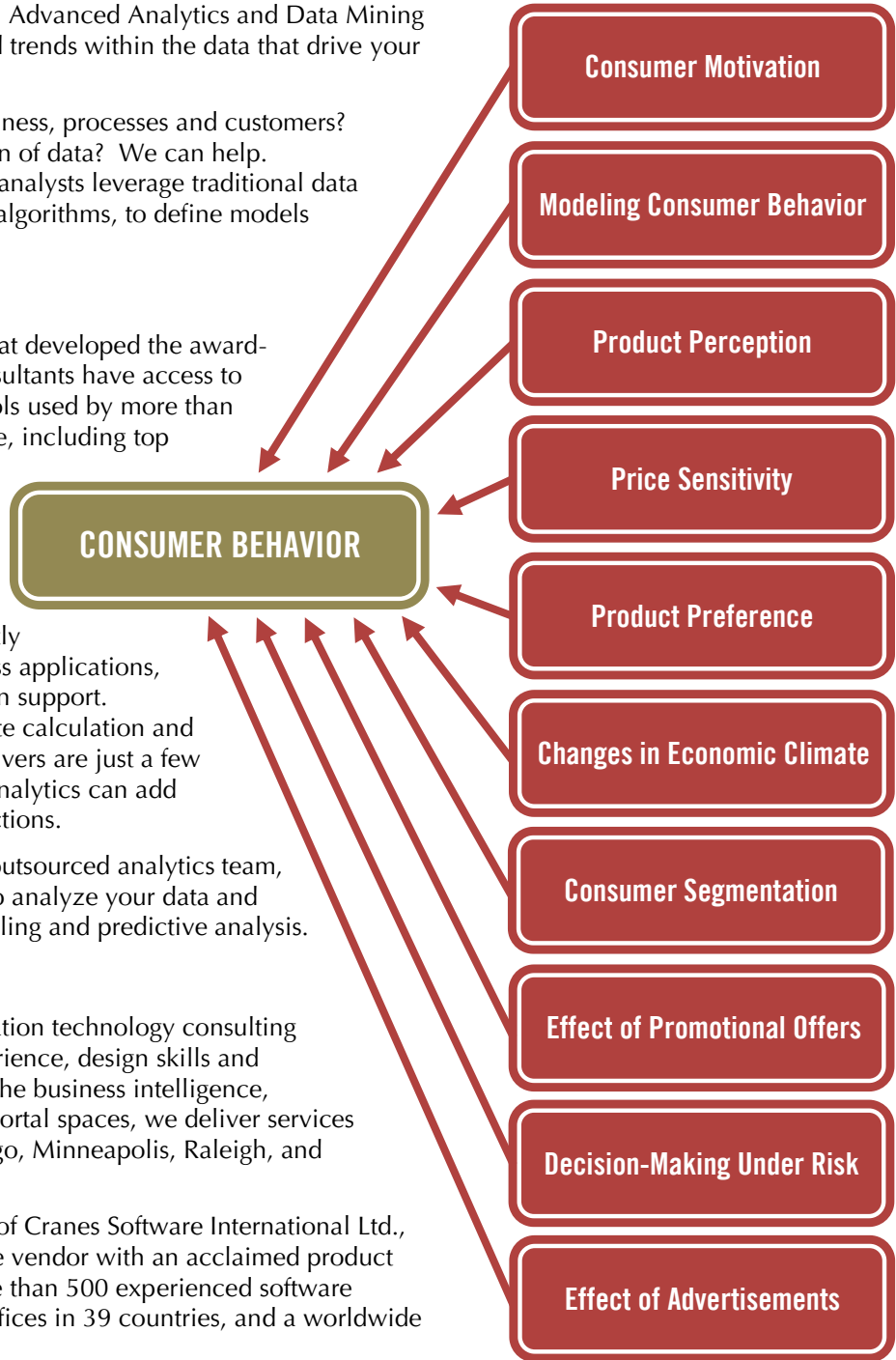
Utilizing service Oriented Architecture (SOA) technologies, our data mining models can be tightly integrated – in real time – to business applications, and provide online, on-time decision support. Credit scoring, consumer interest-rate calculation and securities pricing and transaction drivers are just a few examples of how data mining and analytics can add immediate value to complex transactions.

We also can work as a completely outsourced analytics team, leveraging the skills of our experts to analyze your data and provide conclusions based on modeling and predictive analysis.

FULL-SERVICE, EXPERT IT CONSULTING

Dunn Solutions Group is an information technology consulting firm with exceptional strategic experience, design skills and technologic expertise. Focused on the business intelligence, application development and web/portal spaces, we deliver services worldwide through offices in Chicago, Minneapolis, Raleigh, and Bangalore, India.

Dunn Solutions Group is a division of Cranes Software International Ltd., a scientific and engineering software vendor with an acclaimed product portfolio. Cranes Software has more than 500 experienced software developers and scientists on staff, offices in 39 countries, and a worldwide network of distributors.



BUSINESS INTELLIGENCE

EXPERTISE

BASIC AND ADVANCED STATISTICS

- Descriptive and inferential statistics
- Linear and non-linear fitting
- Cart
- Cluster analyses
- Correspondence analysis
- Discriminant analysis
- Factor analysis
- Perceptual mapping
- Path analysis
- Probit
- Time series analysis
- GLM

LEARNING SYSTEMS

- Neural and machine learning methods for segmentation, classification, prediction

ADVANCED OPTIMIZATION METHODS

- Linear and non-linear optimization
- Integer and mixed integer programming
- Dynamic programming

OTHER METHODS

- Genetic algorithms
- Agent theory

VERTICAL FOCUS

TELECOMMUNICATIONS

- Combine customer behavior and demographics for pricing simulation, marketing campaign analysis, ARPU and churn prediction

BANKING AND FINANCIAL SERVICES

- Statistical design and analysis for financial institutions for all four phases of full Basel II compliance
- Customized models for assessing Value-at-Risk (VaR) for credit risk, market risk and operational risk

PHARMACEUTICAL

- Statistical design and analysis for all four phases of clinical compliance trials
- Survival and hazard analysis

SIX SIGMA

- Techniques and software at DMAIC stages to attain Six Sigma quality levels for products and services
- Master Black Belt services to instill Six Sigma philosophy, culture and practices

INSURANCE

- Risk factor analysis

RETAIL

- Analyze variables over time, such as customer satisfaction on a quarterly basis, and to forecast for market potential

ANALYTICS & DATA MINING PRACTICE LEADERS

RAJEEVA L. KARANDIKAR, PH.D., FNA, FASC – Professor at Indian Statistical Institute until 2006 • 25 years in academics and consultancy • Worked in election forecasting, cryptology, probabilistic solutions in risk management and criminal evidence • More than 100 journal publications and two books, including “Introduction to Option Pricing and Theory”

T. KRISHNAN, PH.D. – Professor at Indian Statistical Institute until 1998 • 45 years as professional teacher, writer and consultant • Among India’s best-known statistical statisticians • Seminal contributions in statistical computing, pattern recognition and biostatistics • Popular and successful consultant in biology and medical sciences, economics and quality management • Co-author of Wiley’s “The EM Algorithm and Extensions”

SRINIVAS BHOGLE, PH.D. – Head, Information Management Division at National Aerospace Laboratories (NAL) until 2006 • 22 years as R&D scientist at NAL • Experience in the development of knowledge portals and operations research • Well-known columnist and popular scientific writer

TAPEN SINHA, PH.D. – ING Commercial America Chair Professor of Risk Management and Insurance, ITAM, Mexico • Professor, School of Business, University of Nottingham (concurrent appointment) • Founder and Director, International Center for Pension Research, ITAM, Mexico • Research Associate, Center for Risk and Insurance Studies (CRIS), School of Business, University of Nottingham