

Enterprise Data Analytics on Azure



ABOUT SCIENCESOFT

ScienceSoft is a global IT services company headquartered in McKinney, TX, US. In data analytics since 1989, we help midsize and large companies in 30+ industries, including manufacturing, professional services, healthcare, telecoms, retail, education, and more, design and implement effective Azure-based enterprise data analytics solutions and ensure maximum ROI out of data analytics investments.

DATA ANALYTICS AREAS WE COVER

Financial analytics

- Revenue, expenses, and profitability monitoring.
- Profitability analysis and financial performance management.
- Financial planning and budgeting.
- Financial risk forecasting and management.

Customer analytics

- Customer behavior analysis.
- Automated customer segmentation for tailored sales and marketing campaigns.
- Personalized cross-selling and upselling offers.
- Customer attrition prediction, customer churn risk management.

HR analytics

- Employee performance monitoring and analysis.
- Employee experience and satisfaction analysis.
- Employee recruiting analysis.
- ML-based employee churn prediction for attrition risk management.

Asset analytics

- Asset usage analytics, planning asset modernization/replacement/disposal.
- ML-based predictive maintenance.
- Asset investment planning.

Sales and product analytics

- Sales channel analytics.
- Pricing analytics and pricing strategy optimization.
- Identification and prediction of sales trends.
- Product performance analysis.
- Competitor benchmarking.

Supply chain analytics

- Identification of demand drivers, consumer demand forecasting and planning.
- Supplier performance analysis.
- Inventory planning and management.
- Supply chain risks management.

WHAT OUR CUSTOMERS SAY

"When we first contracted ScienceSoft, we needed expert advice on the creation of the centralized analytical solution to achieve company-wide transparent analytics and reporting. ScienceSoft's consultants held a series of interviews, analyzed our workloads, documentation and the existing infrastructure and outlined a clear project roadmap for implementing the solution to get data-driven insights for tactical and strategic decision-making, planning and performance management."

Heather Owen Nigl, Chief Financial Officer, Alta Resources

LEARN MORE

ScienceSoft

www.scnsoft.com

contact@scnsoft.com

+1 214 306 68 37



Azure Data Analytics Solution Architecture

To build a data analytics solution capable of handling your unique data needs, we design a tailored solution architecture and choose an ample tech stack based on the Azure Data Services ecosystem.

Sample data analytics solution architecture	Azure services in use
Data integration layer <ul style="list-style-type: none">Extracting data from diverse data sources.Batch and real-time data processing.Data profiling and cleansing.Transforming data into a predefined format.	<ul style="list-style-type: none">Azure Data FactoryAzure Data CatalogAzure Event HubsAzure IoT Hubs
Data storage layer <ul style="list-style-type: none">Storing raw/pre-processed data of various formats in a data lake at scale for archiving, big data analytics, and data science use cases.Storing historical, integrated company-wide data in a data warehouse for in-depth analysis.Storing current consolidated data in the operational data store for prompt analysis.	<ul style="list-style-type: none">Azure Data lake StoreAzure Blob StorageAzure Synapse AnalyticsAzure Cosmos DBAzure SQL Database
Data analytics layer <ul style="list-style-type: none">Online analytical data processing and data mining to roll up, drill down, slice and dice business data and identify unusual patterns and trends within huge data sets.Forecasting, what-if scenarios modeling, etc.Real-time data analysis.Big data analysis.	<ul style="list-style-type: none">Azure Analysis ServicesAzure HDInsightAzure DatabricksAzure Machine LearningAzure Stream Analytics
Data reporting layer <ul style="list-style-type: none">Creating reports and dashboards to make analytics results digestible and easily accessible within the company and among trusted external users.Running ad hoc queries with self-service BI tools.Embedding analytics insights into apps, web portals, etc.	<ul style="list-style-type: none">Microsoft Power BI
Data security layer <ul style="list-style-type: none">Configuring conditional data access and user authentication.Managing user authorization.Managing sensitive data with end-to-end encryption and dynamic data masking.	<ul style="list-style-type: none">Azure Active Directory,Azure Key Vault