DATA SCIENCE & ADVANCED ANALYTICS

Avoid hidden pitfalls and optimize your mission with ASG's AI-Driven Custom Analytics Reports

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Group

A Squared Group: Healthcare IT Services & Solutions

List of Our Services

DATA ANALYTICS

ASG helps clients to make proactive, data-driven decisions that accelerate innovation and increase ROI with modern data analytics. We capture the most value from the data, not just through world class analytics, but by critically evaluating the data stack itself, identifying gaps, filling them, and then activating with predictive and prescriptive analytics. Our data analytics consultants not only build meaningful dashboards, but also demonstrate how to reveal insights that improve outcomes. We empower business users to visualize and analyze data through intuitive interfaces, while maintaining data governance and minimizing labor-intensive BI tasks. We offer:

- Cloud-enabled, multi-cloud computing
- Resiliency (automated re-start, recovery)
- MPP (massively parallel processing)
- Auditability for all ETL and ELT processes
- Containerized CI/CD and embedded analytics
- Standards-driven design and code

AGILE ANALYTICS

Our Agile Analytics consulting team helps organizations achieve the shortest distance possible between a) analytics strategy/development/improvement; and b) return on investment. Our practice internalizes the guiding principles that make agile analytics so appealing for organizations that depend on "speed-to-solution" application development. With these ideals in mind, ASG's Agile Analytics consultants possess the highest training and certification levels in the cutting-edge tools and methodologies we employ:

- Parallel, rapid prototyping and testing
- Containerized CI/CD and embedded ML/AI

- Ingestion accelerators
- Pre-built industry analytics modules
- Analytics-ready enterprise data lakes and data warehouses

BUSINESS INSIGHTS

ASG specializes in developing robust, scalable dashboards and reporting tools. We incorporate design thinking principles into our user interaction/user experience (UI/UX) consulting to put users first and build solutions that they can quickly adopt and rely on. Harnessing the speed and agility of agile analytics and leading-edge data visualization software, our teams quickly build, test, and deploy dashboard analytics and reporting functions for a host of diverse business users. From senior executives and managers to administrative support staff, all levels of clientele can connect cross-channel data points with ASG's dashboard and reporting solutions.

MACHINE LEARNING MODEL DEVELOPMENT SERVICES

Our experienced data scientists use industry-leading toolkits, libraries, and frameworks to maximize predictive power and accelerate time-to-value.
- Auditability for all ETL and ELT processes.
- Containerized CI/CD and embedded analytics
- Standards-driven design and code

Fraud detection and prevention
Protect applications, services, and operations from fraud using machine learning and decision automation. Our solutions provide real-time fraud analytics and prevention by integrating with transactional systems and data streams.

Anomaly detection
Building, training, and deploying machine learning models in real-life environments. Minimize risks in IT management processes using machine learning.

Deep learning
Development of algorithms based on artificial neural networks for complex data processing.

Language processing
Creating applications capable of understanding and processing human language to gain valuable information.

Sentiment Analysis
Classifying text to a class using survey data. Depending on the dataset and the reason, our solutions provide Sentiment Classification in binary (positive or negative) or in multi-class (3 or more classes) formats.

Statistical modeling
Applying statistical methods to make reliable future predictions and discover actionable insights.

Trend Analysis
With access to large sources of historical data, our analysts conduct the analysis work, assess the data, identify, and track signals and their prominence during the monitoring period.

DATA LAKE

ASG helps clients to streamline data architecture across modern cloud data platforms and best-in-class data lakes so that they can integrate, manage, analyze, and share growing volumes of data within their cloud-based enterprises. Our expertise in Hadoop, ETL, SQL, NoSQL database, Spark, etc., adds machine learning and artificial intelligence to accomplish these initiatives more efficiently.

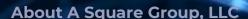Our modern data architectures services are distinguished by:

- Performance Optimization: We incorporate performance optimization into a cloud-based, big data analytics framework to ramp up processing power and speed as data volumes increase.

- Roadmaps and Strategy: From the start, we work with stakeholders to create a business-focused vision and strategy for available data. Then we develop business intelligence architectures based on those business requirements, backed up by the technology that will deliver the results enterprise needs.

- Data Management: Automated data discovery using cloud native tools. Data catalog and metadata management.

- Design patterns, and data modelling frameworks: We come to the project prepared with design patterns and frameworks that is purpose-built for common industry challenges.

- Built-in data privacy and security: These key features are built into our frameworks from the ground up.

- Data Strategy & Governance for better business outcomes:

  o protect and govern data assets
  o data quality check
  o metadata curation
  o accelerate database management optimization

CLOUD DATA LAKES AND DATA WAREHOUSES

ASG's Cloud Data Lakes services allow our clients to break free from rigid data center constraints and scale up and down on demand. Our services offer well-organized, accessible Data Lakes for large volumes of raw data for use in future analytics applications, managed by data scientists.

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- Data Warehouse architecture that comprises structured, filtered data ready for analytics, giving business users multiple self-service options for analytics, data visualization and reporting applications.

About A Square Group, LLC

At A Square Group (ASG), we enable clients to achieve their business goals through technology, process, and governance. Our experienced professionals work in partnership with our clients to ensure their investments deliver superior results – increasing business efficiency and improving business processes. We ensure our solutions integrate with all aspects of our clients' business: their business systems, work practices, corporate strategy, culture, and people. Our record of excellence in service stands as our hallmark as we continue to increase our client base. ASG's dedication to clients is demonstrated every day in the way we interact with each individual.

Areas of Expertise

Artificial Intelligence (AI), Machine Learning (ML), Cybersecurity, Identity and Access Management (IAM), Software Development, Mobile Development, Cloud Computing, DevSecOps, CI/CD, Cloud Migration, Healthcare Services & IT Solutions, Measures and Instrument Development & Support, Data Center Services, Data Analytics, Big Data, Training & Outreach, Web Development & E-Learning, Agile Transformation, and Digital Transformation

A Square Group is a Minority, Woman-Owned, Small Disadvantaged Business.

CMMI L3 (Dev & Svcs) | ISO 9001:2015 | ISO 20000-1:2018 | ISO 27001:2013 Certified

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