DATA & ANALYTICS
ADVANCED ANALYTICS

aim consulting
AN ADDISON GROUP COMPANY

Powerful Predictive and Prescriptive Insights at Enterprise Scale

Leveraging artificial intelligence, data science and machine learning to help organizations drive successful predictive and prescriptive analytic solutions.

Automated Insights Are The Future Of Advanced Analytics

With the massive and continued growth and speed of data, the ability for humans to interact, consume and generate accurate insights is daunting and not scalable. The use of Advanced Analytic capabilities from AIM can mine big data platforms t o embed and automate future state predictive and prescriptive solutions to revolutionize an organizations operations, increase speed to insights and provide more accurate decisions.

Benefits of Advanced Analytics

- **AI Solutions Embedded in to everyday processes**
- **Ability to scale, grow and maintain Proven process that yields cost effective, proven results**
- **Ability to mine and process big data**
- **Supervised approaches to help validate thought to actuality and Un-Supervised approaches that help organizations realize the unknown**

Data Science Methodology

A systematic and structured approach for Data Science for improving the speed, efficiency and quality of projects, products and processes.

DnA Lab

End-to-End program, from business use case to solution deployment, designed to provide Data Science technologies with a scalable methodology to consistently and efficiently define, architect, and deploy new advanced analytic solutions.

Computer Vision

Solution designed to gain high-level understanding and insights from digital images and streaming media using deep learning.

Natural Language Processing (NLP)

Automatic computational processing using Natural language processing (NLP) of human languages, which include deep learning algorithms that take human-produced text as input and using algorithms to produce natural looking text as outputs.

Streaming Analytics & IoT

The processing and analysis of fast-moving live data from a variety of sources, including IoT devices, to raise automated, real-time actions or alerts.

Advanced Analytics

AIM has developed a proprietary advanced analytic methodology that helps organizations deliver value quickly, efficiently and at-scale. Our proven approach helps identify the art of the possible across the organization, quickly developing iterative, successful solutions that can be packaged to production and maintained with MLOps frameworks.

Success Stories

CLIENT	SITUATION	CHALLENGE	KEY RESULTS
Retail Department Store	TA retail department store chain was struggling to keep pace with advancements in data and analytics as its D&A platform had become stagnant and therefore difficult to maintain, re-engineer or automate. Leadership wanted the ability to produce real-time predictive models to enhance the shopping experience for customers and increase revenue.	AIM'S team began a 6-month engagement with the following goals: modernize the company's D&A platform, Clean the data and move it to a more accessible location, create team cohesiveness between data scientists + engineers. AIM provided a massive value-add by rewriting an algorithm to combine visual similarity of images derived from product data with actual product information.	A/B testing revealed that the AIM team's algorithm would result in a $4.16 million immediate impact to revenue over a 90-day period. With a modernized D&A platform and new algorithms leading to significantly improved conversions, the client is now capably equipped to take on new data-science initiatives.
American Electronics Retailer	The client's previous D&A practices inlcuded: using basic summary statistics to determine various bits of information about returned products, substantial number of products being returned, processing data manually, product shelf time was not being calculated.	AIM's teams: conducted discovery phase, assessed current extraction methods for identification of returns , utilized a Minimal Viable Product approach, created Python Packages, and made SQL and Excel Datasets for automation	AIM's team was able to: • calculate the return rate of products • create a better understanding of sales patterns • save the client millions of dollars in product returns
Medical Devices Manufacturer	As part of medical device manufacturing processes, assembly of highly calibrated parts requires extreme precision to ensure the highest quality, regulatory & compliance standards adherence. Current software was hosted on-premises in North America, making access to global users very slow as part images coming from production lines are large & had slow load times.	The major challenges the advanced analytics team had were: inability to have a resilient multiregional image labeling software to be available globally to end users, limited ability to scale large datasets, delivering optimal compute power without resiliency, device assembly manually intensive and prone to human error, high assembly defect rates was costly and time consuming.	AIM's team converted existing software to run on Kubernetes completely in the cloud on AWS. The team enabled continuous synchronization between geographical regions via AWS S3 and Mongo Atlas. They built resiliency in Kubernetes with automatic app restarts in case of a problem and automatic backups of S3 storage and Mongo Atlas database.

aim consulting
AN ADDISON GROUP COMPANY

206.624.5333 **aimconsulting.com**

AIM Consulting, an Addison Group company, is an award-winning industry leader in technology consulting and solutions delivery. AIM's differentiation is our collaborative engagement model that provides cross-functional results. We work with clients, shoulder to shoulder, for one goal – their success. Founded in 2006, with offices in Seattle, Minneapolis, Denver, Houston, and Chicago, we are ranked among the fastest-growing private companies and best companies to work for due to a long track record of success with our partners and consultants. Our long-term relationships with the best technology consulting talent allow us to deliver on expectations, execute on road maps, and drive modern technology initiatives.