# Automated Machine Learning

Application of DCS-ai AutoML, a suite of Automated Machine Learning interfaces for an IT services company – an initiative to Automation in ML.
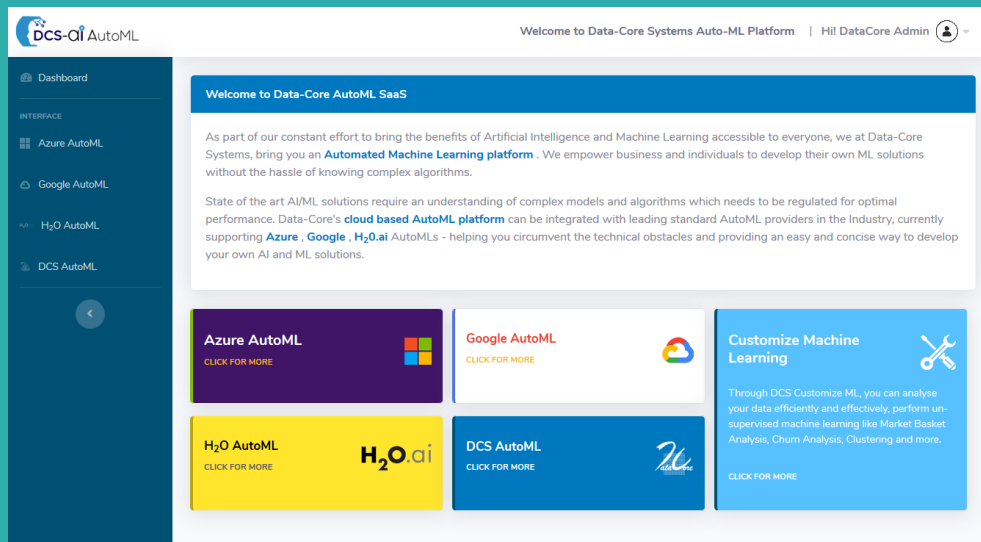
## Who is the Client?

The client is an IT services company with a focus on New-Age Automation technologies like HyperAutomation, Security Automation, Robotic Process Automation and more.

## What was the Client's need?

To create a cloud-based Automated Machine Learning (AutoML) platform to bring the benefits of Artificial Intelligence and Machine Learning accessible to everyone.

DCS-ai AutoML is a suite of Machine Learning products that enables limited machine learning expertise to train high-quality models specific to their business needs, making Machine Learning (M accessible & affordable.



## What services did Data-Core provide?

Data-Core built a fully automated pipeline cloud-based Machine Leaning platform which is user-friendly and can be easily-operable by people with limited statistical knowledge.
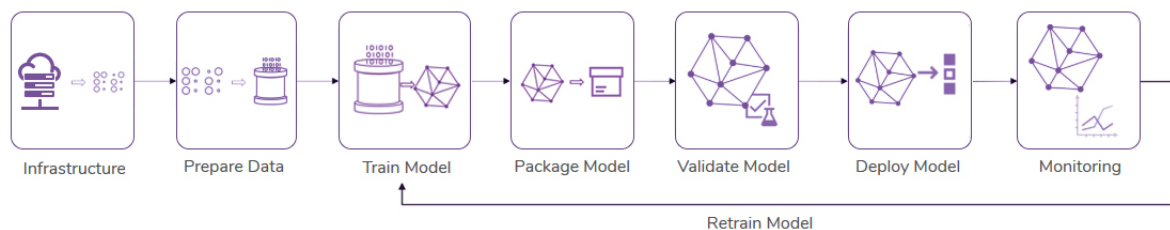
Services Included:

- Integrated with standard AutoML interfaces provided by 3 leading organization like Azure, Google and H2O.ai, and in addition has the capability to explore Data-Core's Custom ML Services.

- Data-Core's (DC) custom ML services are to perform those complex supervised and unsupervised learning whether it necessitates deeplearning is not possible though AutoML platforms.

# Automated Machine Learning

## What services did Data-core Provide? *(Continued)*

- Using MLOps for a Continuous Integration and Continuous Delivery pipeline for the ML/AI project. Apply Governance and Control, Collaborate, increase the pace of model development and deployment via monitoring, validation and operationalize of machine learning models through MLOps.

- Using the Azure DevOps Project for build and release/deployment pipelines along with Azure ML services for model re-training pipeline, model management and operationalization.

- Selection of the model of your choice and compare data accuracy using different models which is ultimately helping you reduce risk factors in prediction. Eliminate tedious tasks, such as testing different ML approaches on the same data set to evaluate model performance.

- POCs completed through DCS-ai AutoML Platform:
  - Churn Analysis for Bike Industry (Retail)
  - Churn Analysis for Telecom Industry (Telecom)
  - Denial Claim Management Prediction for in-house Health Care Industry (Health Care)
  - Prediction for in-house Finance (Trading)
  - ML Audit Analysis (Finance)

- Data-Core ML Services:
  - Customer Segmentation & Clustering (Retail)
  - Customer Behavior Analysis (Retail)
  - Market Basket Analysis (Retail)



Infrastructure → Prepare Data → Train Model → Package Model → Validate Model → Deploy Model → Monitoring

Retrain Model

## In Summary

Data-Core's strategy is not only to offer an end to end automated ML solution (MData.AI = Data Wrangling + Machine Learning + Visualization) as product as a service, but to allow interested customers to provide any section from the pipeline as product as a service too.

DCS-aiAutoML allows customers to control parameters, tuning, machine learning operations and model assessment through our proprietary solution.

*Discover the Data-Core Advantage.*

*Learn how we can help your company be more relevant, effective and efficient.*

**USA Headquarters**
1500 JFK Blvd., Suite 624
Philadelphia, PA 19102
Tel: 215 243 1990
www.datacoresystems.com

**Bristol, USA**
111 Sinclair Road,
Bristol, PA 19007
Toll Free: 877 300 9529
Tel: 267 569 0800

**Las Vegas, NV**
1771 East Flamingo Road Suite B100
Las Vegas, NV 89119
Toll Free: 877 300 9529
Tel: 702 795 9559