

A large CPG firm saw a 30% improvement in tool adoption and a 90% reduction in downtime post Tredence's MLOps implementation



BACKGROUND

- Client had developed 66K ML models for its trade promotions programs across different product-store combinations.
- The current process of managing models was heuristic and manual driven leading to extensive delays in course correction



BUSINESS NEED

Client wanted an intelligent automated solution for tackling key challenges around improving the overall Trade Promotion effectiveness gram, reducing Production Downtime & rationalize on-going maintenance cost

★ SOLUTION APPROACH

Tredence's solution created immediate ROI for the client

- Within the 1st month, Tredence was able to take over the support for 20K models in production
- Code migration from Python to PySpark decreased the model processing time by 45% by leveraging job cluster & schedulers
- The visual provenance graph feature helped to streamline the ML Pipeline Monitoring to reduce production downtime
- Proactively tracked model drift to detect changing data trends for the 66k+ models in the Trade Promotion program



OUTCOME

96% reduction in production downtime from 6 days to < 4hrs

\$1.3 M uplift in quarterly sales as a result of streamlined MLOPs practices

30% Improvement in Trade promo tool adoption due to better ecosystem reliability

66k+ Models are being managed currently



**This solution won the NASSCOM AI Game changer award in 2021*

Tredence enabled a large Telecom Provider to build MLOps practice on Azure Platform and deliver reliable insights to Business



BACKGROUND

- One of the largest telecom organization wanted to streamline their model management process to deliver faster results and enhance collaboration among the individual teams
- MLOps solution helped the customer manage end to end ML pipelines, proactively detect model degradation and continuously consumed model insights



BUSINESS NEED

Client wanted an intelligent automated solution to tackle challenges in the areas of ML Model scalability, non-centralized data science practices, high production downtime and business trust towards the insights.



SOLUTION APPROACH

Tredence's solution created immediate ROI for the client

- Reduced support cost by 75% by automating model monitoring.
- Improved model accuracy by enabling the standardized testing framework
- Set-up end to end MLOps on Azure within 2 months with our SMEs, engineers and customized MLOps Accelerators
- Enabled MLOps practices starting from a POC for a single Customer Retention model in 1 country across 4 business segments to eventually support 120+ models across a combination of 4 countries, over 6 business segments, with 30+ plans and product functions.



OUTCOME

75% reduction in support cost

Setup of ML Ops on Azure in **<2 months**

Supported **120+** models across a combination of **4 countries**, over 6 business segments, with **30+** plans and product function.