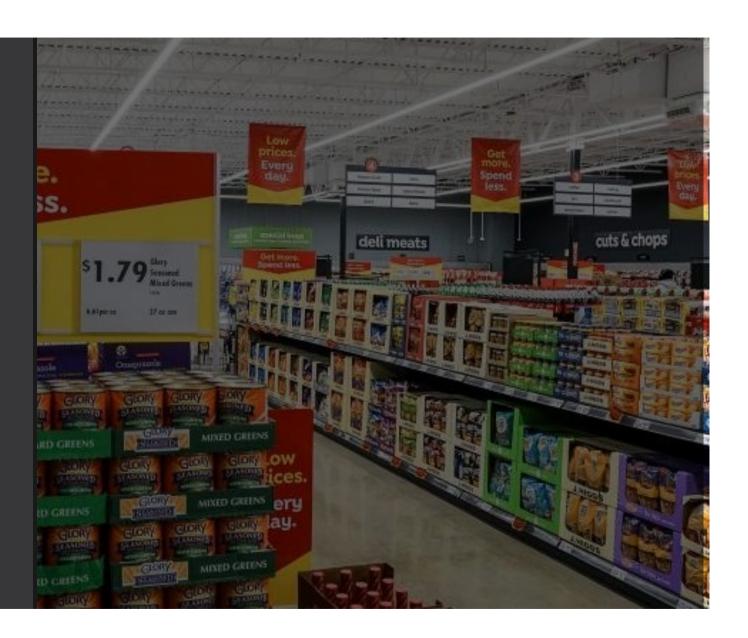
Test & Learn Markdown Optimization



Advanced analytics in pricing to maximize net sales and sell-through



Our assignment

Define optimal markdown price over time for maximized sales and sell-through, using advanced analytics modeling

Baselining Forecasting sales quantity and A/B testing

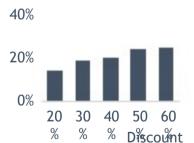


Jan-14 Jan-16 Jan-18 Jan-20



Price elasticity
Sensitivity to discounts

Add'l sales



Markdown strategy
Optimized discounts per product per week

w.1	w.2	w.3
-30%	-40%	-50%
-50%	-60%	-70%

© The impact



Maximized sales



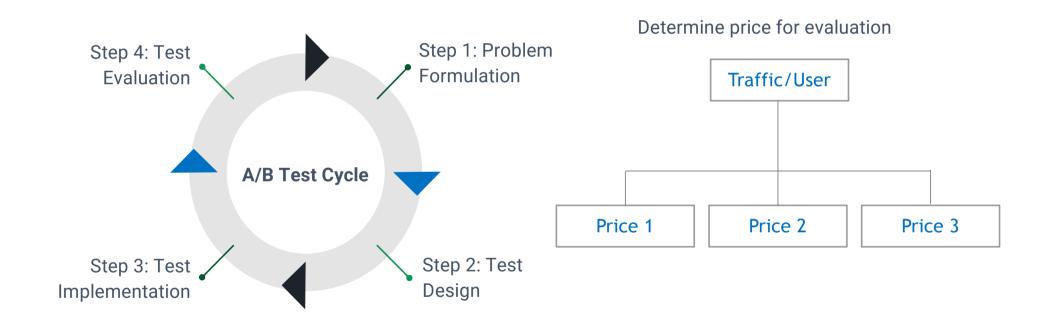
Minimized average discount



Maximized sell-through



Determined test window and provided suggestion on test result and significance test

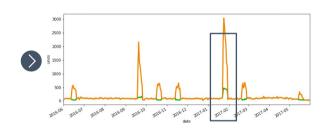


Two beberage examples: similar promo sales, large difference in incrementality and return on marketing investment

Two detergent promo examples... ...showing clear spike in volumes...



CocaCola Soda Format: B2C



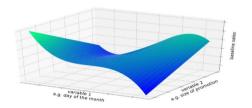


Pepsi Soda Format: B2B2C

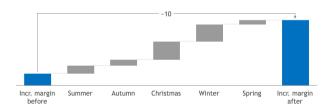


Example

... Analysis and interpret model



Machine Learning Elastic Net algo accounting for 50+ dimensions



Provide seasonal promotion effect with specific product insight