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Demystifying demand forecasting in grocery: strategies to address the unique challenges

Grocers are facing unprecedented top and bottom-line erosion due to stock issues





Changing consumer behavior has led to unpredictable and volatile demand

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Convenience and price-sensitive

The percentage of U.S. adults who prefer pickup or delivery has increased from 5% in 2017 to 23% in 2021

More choices

One-third of U.S. consumers say they are actively looking for new products to try Impact of events Demand for some categories such as meat and produce varies as much as by 50%

Changing Consumer Demand

Traditional demand forecasting is ineffective to respond to unpredictable and volatile demand



Traditional forecasts are not tailored for channel, category-store nuances



Static one-time forecasts don't adapt to dynamic market forces



Overdependence on manual interventions due to inherent data limitations



Traditional forecasts are not tailored for channel, category-store nuances

"one size fits all" approach isn't working anymore



Traditional forecasting methods use pre-defined rules that do not capture the diversity or complexity of products

Every category, store and channel behaves differently and needs an individualistic approach

Traditional forecasts are static one-time forecasts that don't adapt to dynamic market forces



What happens on the aisles dictates the demand rather than the long-term trends and cycles

Traditional forecasting methods do not capture important demand forces that drive demand

They are also not sensitive to what is happening in the store or even in the aisle in terms of markdowns and promotions

It also fails to capture short-term cannibalizationlike effects due to unavailability of competing products



Traditional forecasts depend heavily on manual interventions due to inherent data limitations

Lack of historical data: Shorter product lifecycles

Sparse data: Ever-widening assortment breadth

Noisy data: Lack of accurate and clean data

Manual manipulation of data: Lack of grocery-focused data science

Grocers need a mature forecasting framework that can address inherent data limitations

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Beyond traditional forecasting – A framework for Agile & Intelligent demand planning



Ability to consume a **wide variety of data points** that can drive demand without cumbersome configurations Ability to **tailor forecasts at a granular level** (category, store, and channel) by looking at granular data as opposed to rule-based methodology

Tailor



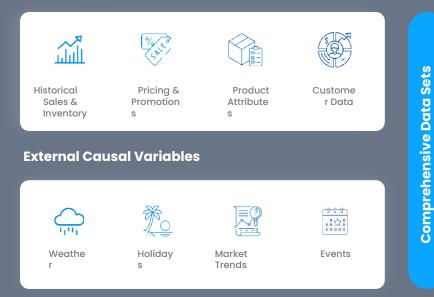
Ability to forecast with agility to react to market circumstances with minimal manual intervention



Capture the complete spectrum of Demand Forces

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Internal Data Sets



Grocers need **multi-variate forecasting** models where potential internal and external indicators of demand are captured as predictors

Evaluation and selection of predictors that are the most impactful should require minimal human intervention

Embedded mechanisms should be able to handle complexities that can arise with noisy, sparse data

Forecast Right & Order Right by Algonomy

Al-infused 1-click Demand Planning and Replenishment

Forecast Right: Turbo-charged Intelligent Forecasting **Order Right: Algorithmic Replenishment Historical Sales Sales predictors : Internal** DOIG 1/2 Lo Algorithms Historical Pricing & Targets Marketing **Open Orders Optimization Algorithm** Sales Promotions Optimal **Ensemble of Forecasting** Replenishment Sales Predictors : External Schedule Item Parameters Forecast Weather Holidays Market Events Trends Stock Balance

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Why Top Grocers Use Order Right

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Built on Forecast Right -the most accurate, smart, and retail-native forecasting solution Unique replenishment algorithms built specifically for retail



Designed with the business user in mind



Agile and scalable across SKU-category -store-channel

Value Unlocked

10% reduction in inventory costs







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Empowering Top Grocery Chains Worldwide With Intelligent 1-Click Replenishment

