# The key to growth is operationalizing insights from analytics

### **Executive Summary:**

- Key challenge in targeted marketing: a deeper analysis of X's customer segments and their importance revealed an opportunity for more effective marketing through targeting **high priority** segments
- The desire for growth is supported by understanding drivers of spend; consumers purchasing **electronics products** is the most important predictor of spend, increasing spend by \$521 through increasing electronics product purchases by 1.
  - Enrollment in the Loyalty Program is also a significant predictor of spend, and customers who take advantage of **discounts** is a key differentiator of those participating in the program
- Demand forecasting can help to mitigate the problems with inventory stock-outs, which can be further enhanced through analysis of key promotional data particularly during **Black Friday** and other successful promotional days

# Retailer X should target 2 core customer segments

13%



Product Preference: Food Income: High Income

Customer Profile: Cindy is a Vegan who enjoys her

morning Starbucks
Focus Priority: MEDIUM

Gender: Male

**Product Preference: Electronics** 

Income: Low

Customer Profile: John is a college student with limited income and a passion for tech

Focus Priority: HIGH

7% ¬ Gender: Male
Product Preference: Apparel
Income: Medium

Customer Profile: David is a coupon cutting stay-at-home dad who loves getting good

deals on golf shirts

40%

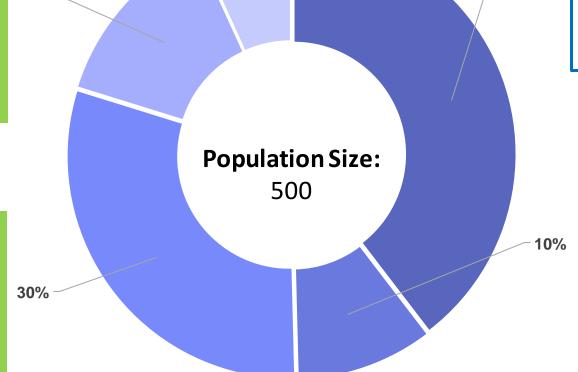
Focus Priority: MEDIUM



Product Preference: Apparel Income: Medium Income

Customer Profile: Jessica is in her mid-30s and spends her disposal income on clothes

Focus Priority: HIGH



Gender: Female

**Product Preference: Health & Beauty** 

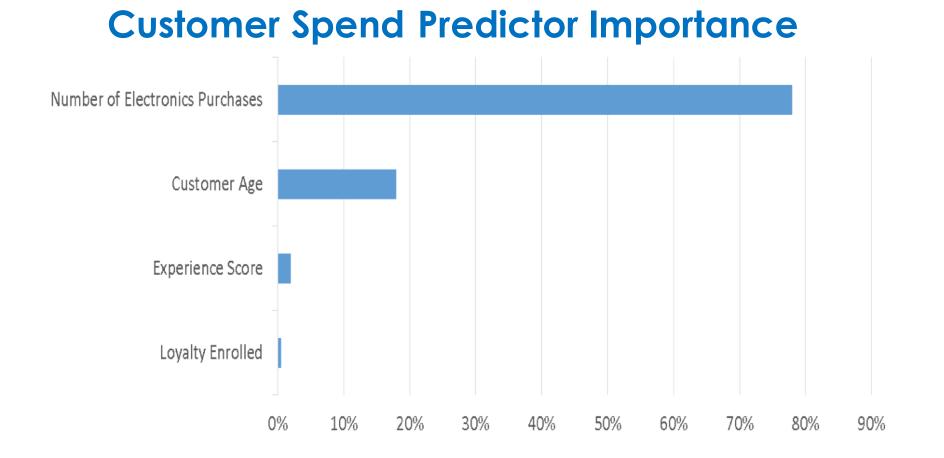
Income: Low

Customer Profile: Amanda is a Senior in High-school with a fixation on lip gloss

Focus Priority: LOW

## To increase customer spend, focus on Electronics Purchases

Holding all else constant, increasing the number of electronics purchases by 1 impacts customer spend by \$521



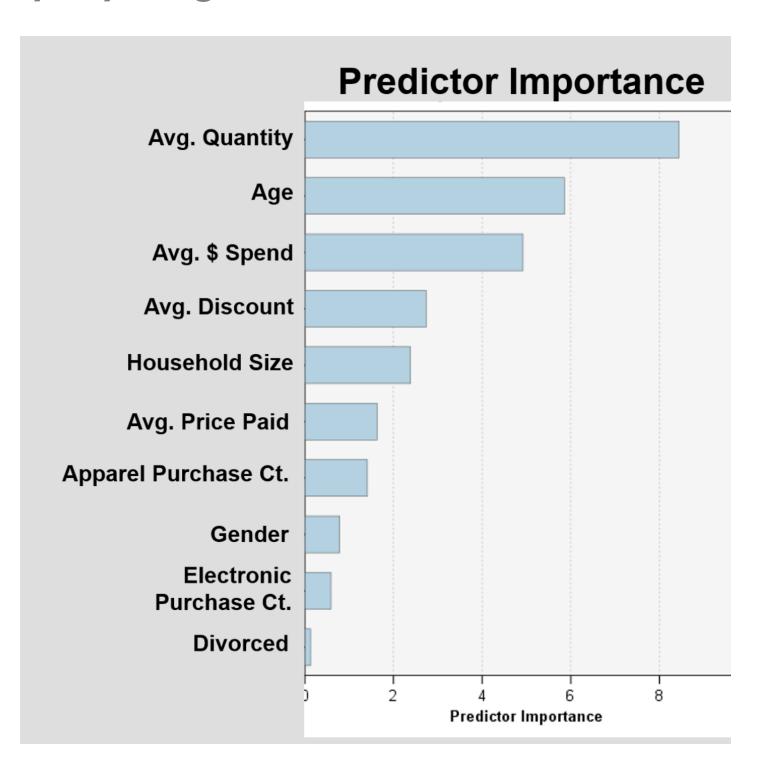


<sup>\*78.1%</sup> of the variability in total \$ spend can be explained by the regression including the number of electronics purchases, enrollment in the loyalty program, the average experience score, and the age of the customer as predictors.

# Offering discounts is a key driver of Loyalty Program enrollment



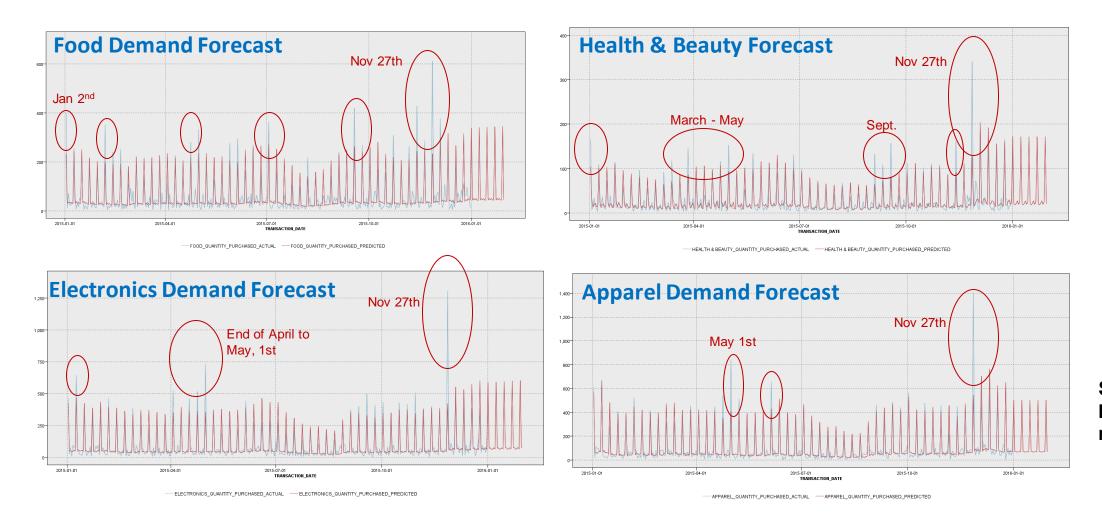


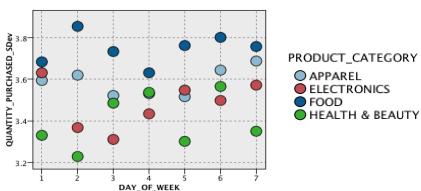


## Focus on successful promotions to more effectively forecast demand

### **Key Insights**

- A significant spike in sales across all product categories on Black Friday, but sales stagnate going into December
- Food: Post New year stock needs to be increased
- Health & Beauty: Demand for products decreases during summer months, but there are spikes post new year, in the spring, and early September
- Electronics: End of April to May 1st promotions were successful, and in future will require additional stocking
- Apparel: Approaching summer months there are spikes in demand





Store Traffic data and Stock out data can help us determine if stock outage is the reason for lower sales on certain days

# Advanced Analytics provides Retailer X with a competitive advantage

### **Findings & Actionable Insights**



### **Clustering**

- Focus on media consumption patterns of high priorty clusters
  - ✓ Sponsored University Sports Events
  - ✓ Targeted Facebook Ads



### Regression

- Focus on driving electronics purchases
  - ✓ Incentive product category sales
  - ✓ Optimize store layout



#### Classification

- Focus on driving loyalty program enrollment
  - ✓ Revamp discount programs
  - ✓ Incentive sellers to enroll customers

### **Demand Forecasting**



#### **Value to Business**

- ✓ Enhanced Planning Ability
- ✓ Reduced Stock-outs
- ✓ Lower Holding Costs



#### **Value to Customer**

- ✓ Enhanced experiences
- ✓ Reliable shopping