

# Sales performance analysis

#### Restaurant chain

Analyzed the YoY growth of key sales parameters such as sales, traffic, customer acquisition rate, repeat customer frequency and average order values to identify the regions that experienced a significant decline in sales and high-level factors that were driving this decline

### Restaurant chain company needs sales performance analysis

#### Picture this...

You're looking to analyze the factors driving the decline, understand the linkages with customer behavior and experience and subsequently design marketing campaigns to improve the sales in the region. Currently, you are witnessing a sustained drop in sales in one of its primary regions. Hence, there is an opportunity to diagnose the reasons behind the drop in sales and devise an appropriate plan to reverse the trend

#### You turn to Accordion.

We partner with your team to understand the significant decline in sales in one of the primary regions and diagnose the reasons behind the same and design action items to reverse the trend including:

- 1) Analyzing the YoY growth of key sales parameters such as sales, traffic, customer acquisition rate, repeat customer frequency and average order values to identify the regions that experienced a significant decline in sales and high-level factors that were driving this decline.
- 2) Evaluating price sensitivity, product-mix changes and impact of cannibalization on sales to isolate the impact of price change events and new store openings
- 3) Analyzing the in-house customer feedback and web reviews from Google, Yelp and OpenTable using text analytics to identify attributes that were correlated with declining sales and identified a relatively lower ratings against portion and value in the affected regions.
- 4) Identifying critical menu items and categories that had low ratings and designing marketing campaigns to improve the customer experience and there by drive increase in traffic & sales
- 5) Creating a cloud-based Power BI dashboard to track the impact of campaigns on customer experience and sales **Your value is enhanced.**

You have understood the customer behavior & sensitivities and correlate those with decline in sales/traffic and enabled them to design & launch suitable marketing campaigns which resulted in nearly 8% increase in top ratings share and a positive 2% YoY growth in sales in Q4 as well as marketing campaigns resulting in upward trend in customer feedback and sales. You have appropriate pricing & portion size enhancement were made to the menus for the items and item groups that were driving lower customer experience. You have Power BI based scorecard provided visibility into the impact of the marketing campaigns.

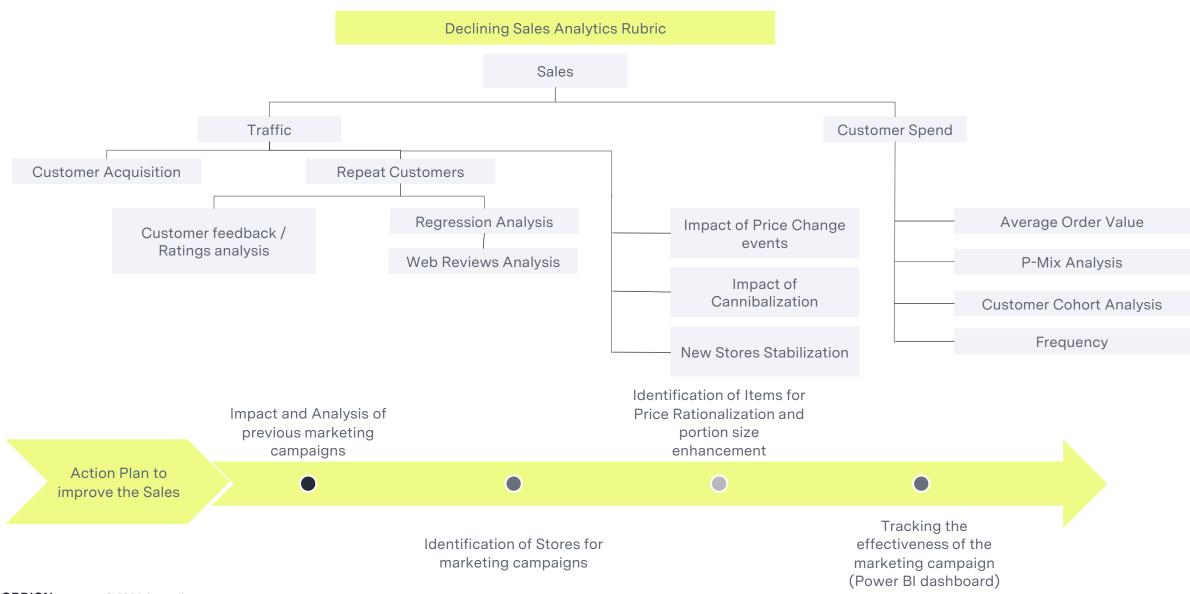
#### **KEY RESULT**

 ~8% increase in top ratings share

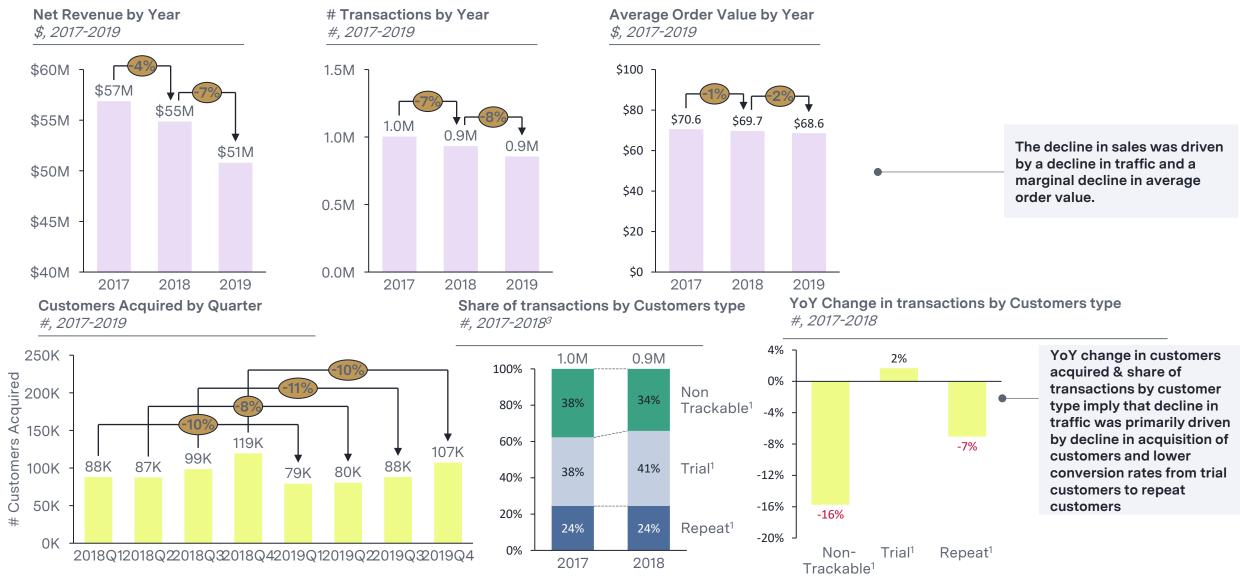
#### **VALUE LEVERS PULLED**

- Sales performance
- Power BI dashboard

### Approach & methodology



### Sales analytics



Non-Trackable customers are the customers who pay by cash. Trial Customers are defined as the customers having only 1 transaction in 1 year since their acquisition, customers with more than 1 transaction are defined as repeat Customers

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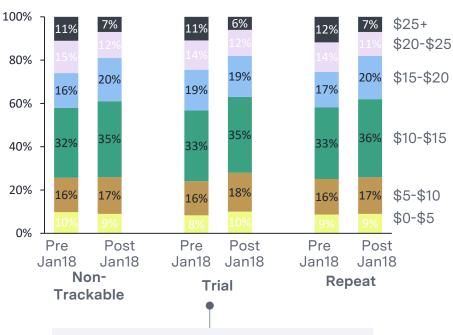
### Factor analysis and testing of hypotheses

Share of sales by Price buckets<sup>1</sup> by customer type for Jan-18 Price change event

Share of sales by customer type<sup>2</sup>, by store<sup>3</sup> %, 2018-19

Difference in Net sales from steady state sales<sup>4</sup> for newly launched store-4

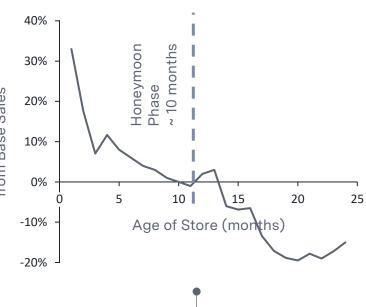
#,\$, 2018-2019



The price change event occurred during Jan'18 made the customers buy cheaper products. This can be observed in the P-Mix distribution where the Share of costlier products (>20\$) decreased (by ~7%)



Majority of sales in the newly opened Store-4 are from the customers who also visited other stores, which implies the catchment for store-4 is limited.

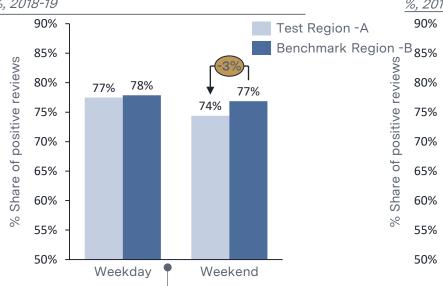


Significant decline in the net sales in H1 2018 for the newly opened store-4, which recently completed its Honeymoon period, was due to high net sales during its "Honeymoon / store ramp-up period".

- 1. All the items were grouped into different price buckets based on its unit price
- 2. Loyal customers are those who visit only the same store, while shared customers visit multiple stores
- 3. Three stores # 2,3,4 lie within less than 8-mile radius from each other. This analysis is limited to customers who transacted only from these 3 stores
- 4. Steady state sales are defined as average Net Sales of matured stores (Stores which have been open since at least 4 years)

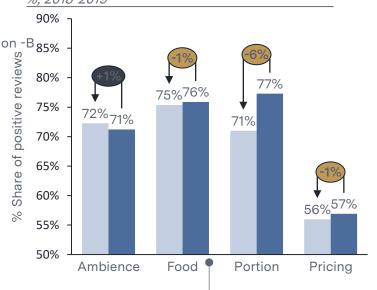
### Customer feedback and web reviews analysis





The share of positive reviews for Region-A is lower than the benchmark region during the Peak traffic hours (Dinner and Weekends)

## Share of positive reviews<sup>1</sup> by question category %, 2018-2019



Region - A had a poor customer feedback for 'Portion' question category when compared to Benchmark Region (B)

#### Share of positive reviews<sup>1</sup> for Portion by Stores %, 2018-2019



Most stores in Region-A have lower share of positive reviews than Benchmark Region (B) in the 'Portion' category.

Web reviews<sup>2</sup> analysis: Share of reviews with poor customer ratings by keyword

Share of reviews with poor customer feedback								
Item / keyword	Total Reviews for the keyword	Store 1 Store 2 Store 3 Store		Store 4	Avg. Share of negative / bad reviews (1,2 rating)			
Item 1	6,706	27%	47%	33%	44%	37%		
Portion size	5,047	29%	14%	29%	42%	35%		
Reasonable Price	4,480	13%	16%	32%	24%	30%		
Item 2	4,088	20%	21%	35%	27%	27%		
Item 3	786	8%	14%	13%	8%	11%		

NLP based text analytics on Customer reviews from Google, Yelp and Open Table also suggested poor performance of the region on portion aspect

<sup>2.</sup> For web reviews analysis, the last 1-year reviews were extracted from Google, Yelp and Open Table for all stores in Region A

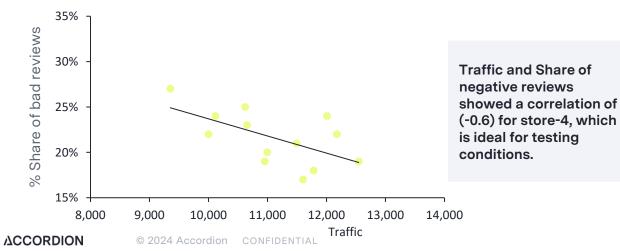
## Design of marketing campaigns

% Share of negative reviews (Portion category) and YoY traffic (2018 vs 2019) for Region-A stores



campaign at Store-4.

% Share of bad memories vs traffic for store-4 Oct'18 to Oct'19



Items Identified for implementation of the campaign

Item list for Portion size enhancement						
Item Name	Item Class	% Share of negative reviews for the item				
Item 1	Fajitas	8.3%				
Item 2	NA Beverage	7.5%				
Item 3	Margarita	6.1%				
Item 4	Fajitas	6.0%				
Item 5	Margarita	5.1%				
Item 6	Margarita	4.4%				
Item 7	Margarita	4.1%				
Item 8	Kids	3.6%				

- Identified the items that contribute significantly to negative reviews (>1% checks) and which have notable amount of sales (top 90%ile sales).
- Further analyzed co-order rate between them. Co-order rates for Items was low which implied that the reviews given to items were not influenced by other items in the bucket.

Co-order<sup>1</sup> rates for the identified items for implementing 'Portion size Enhancement' at store-4 %. 2019

Co-order rate	order rate Secondary Item								
Primary Item	Item-1	Item-2	Item-3	Item-4	Item-5	Item-6	Item-7	Item-8	Grand Total
Item-1		13.6%	9.2%	16.3%	17.3%	14.2%	7.2%	22.2%	100%
Item-2	12.5%		8.5%	13.1%	17.5%	14.8%	13.8%	19.9%	100%
Item-3	10.6%	10.6%		14.4%	20.4%	11.9%	10.1%	22.1%	100%
Item-4	12.8%	11.2%	9.9%		17.1%	15.3%	13.2%	20.4%	100%
Item-5	11.9%	13.1%	12.2%	14.9%		14.6%	14.0%	19.2%	100%
Item-6	16.3%	18.6%	11.9%	22.3%	24.3%		2.4%	4.0%	100%
Item-7	10.0%	20.7%	12.1%	23.1%	28.1%	2.9%		3.1%	100%
Item-8	18.1%	17.7%	15.7%	21.1%	22.8%	2.8%	1.8%		100%
<b>Grand Total</b>	11.8%	12.8%	10.2%	14.9%	17.1%	10.2%	8.5%	14.4%	100%



### Power BI dashboard to track campaign effectiveness

Snapshots of the Power BI dashboard tracking customer feedback (internal), sales metrics, traffic, PPA & checks on a real time basis

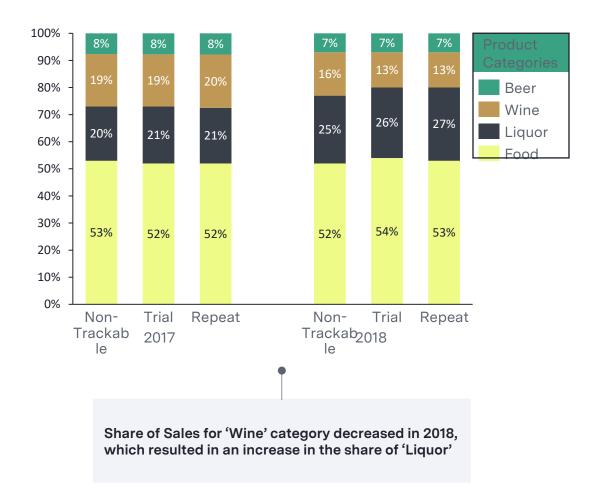


Customer feedback top box rating share for portion increased significantly post the launch of marketing campaign

The campaign resulted in an increase of 3% in sales post the launch, which was declining at 7% during 2018-19

#### **Customer behavioral trends**

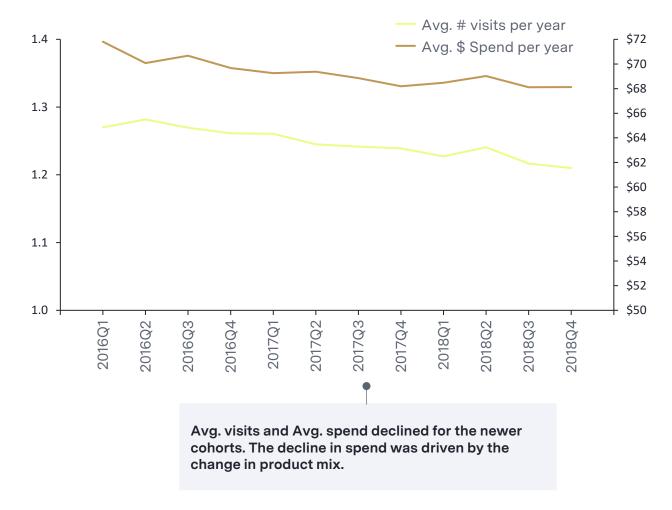
Product mix of Sales, by Customer type<sup>1</sup>, by Year %, 2017-2018



Avg. visits and Avg. \$ Spend per customer (1 Year), by Acquisi #,\$, 2017-2018

Can be dropped

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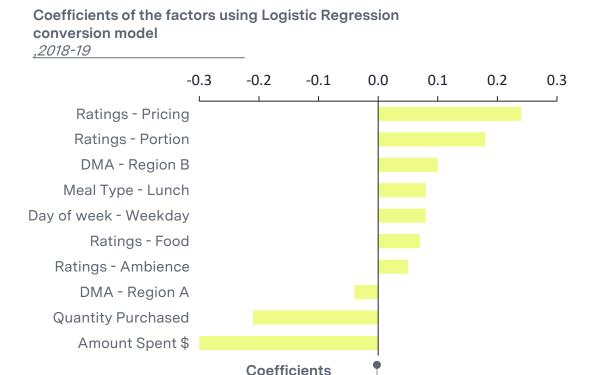
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### Regression analysis on conversion drivers

Regression analysis was done to analyze the drivers/factors for improving customer conversion. The results suggested that improvement on 'Pricing' are lead to better retention rates of customers across regions. Also, keeping all else same, a customer making their first visit to a Region-A is less likely to be

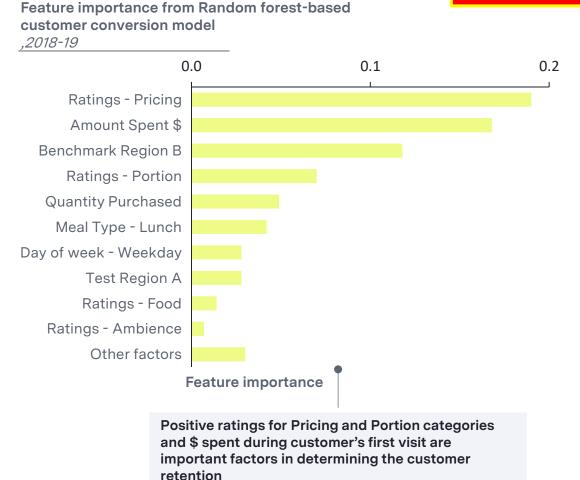
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Higher # of items purchased and \$ Spend on customer's first visit.



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Logistic regression and random forest models were used to train the data (70:30 train to test data split).

Positive coefficient implies that a higher value of the factor results in a higher probability of retaining the customer, while a negative coefficient implies that a higher value of the factor results in lower chances of retention

Weekdays - Mon-Thu; Weekends- Fri-Sun

### Impact of pizza weekends campaign

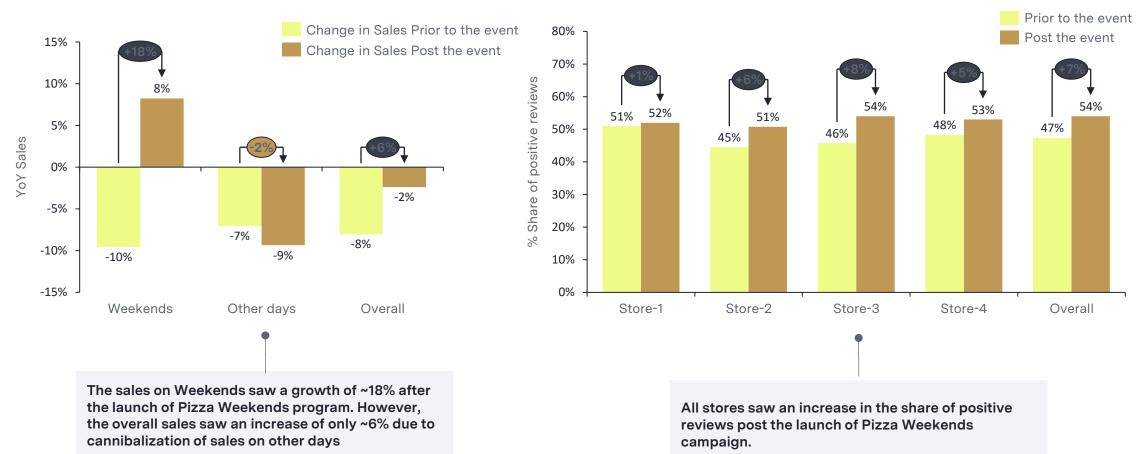
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Marketing campaign was analyzed to understand the customer response and the resultant improvement in sales.







<sup>1</sup> Prior event figures show % change in 90-day sales prior to launch of campaign in 2019 vs sales for same period last year, Post event figures show % change in 90-day sales post launch of campaign in 2019 vs sales for same period last year.

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All ratings were recorded using an in-house system. If the ratings lies in the top 2 boxes of the scale, the review is considered as a 'positive' review (for example, on a scale of 5, a rating of 4 or 5 is considered as positive).