## Data\_is\_future

# Improving the Average Order Value for Milk Basket

## 3<sup>rd</sup> August 2019

#### **OVERVIEW**

We aim to suggest methods and share insights into the order placing trends at Milk Basket and hope to improve the Average Order Value By increasing Revenue and Decreasing the Number of orders.

#### **GOALS**

- 1. Improve the average order value
- 2. Recommend customers about related products

#### **MILESTONES**

## Get basic and broad insights from the dataset

Using data analysis figure out basic trends such as

- 1. Peak hours during the day.
- 2. Number of orders placed per month.
- 3. Maximum and minimum number of items in an order.
- 4. Customer segmentation based on purchase data.
- 5. Average Order Value distributions.

## **Study and Influence User Behavior**

Identify Tier-1 customers (defined by certain purchase parameters, CLV etc). Cluster them meaningfully, and study their behaviour relative to other users in these clusters.

Try to predict the likelihood of a T-n customer becoming a T-1 customer given current data.

Shape the behavior of the T-n customer so that he becomes like a T-1 customer in the same cluster. Use insights from the most similar T-1 customers.

	UID	no_of_orders	mean_order_value	std_deviation	max_order	min_order	total_order_value
0	20932016	81	52.692469	25.650458	145.030	0.0000	4268.09000
1	11425904	50	56.211294	55.022871	265.200	4.0000	2810.56471
2	18601856	56	44.976607	27.907496	148.740	9.5000	2518.69000
3	14554736	38	79.396842	66.221772	327.020	0.0000	3017.08000
4	28784448	39	98.577949	49.434894	276.000	25.0000	3844.54000
5	14724528	16	322.198437	292.140210	813.155	18.0000	5155.17500
6	20104144	54	60 760140	50 004404	210 000	0 0000	2606 40000

# **Identify related products**

Try different algorithms such FPgrowth to determine related products for user recommendation

### **Tech Stack**

Python, Jupyter, Numpy, Pandas, Scikit learn, pickle and similar python libraries



