Instacart Project

Marketing Strategy for an online grocery store



Case Study 4

Project Overview



Context

Instacart is an online grocery store that operates through an app. Instacart already has very good sales, but they want to uncover more information about their sales patterns.



Key Questions

- What are the busiest days of the week and hours of the day (i.e., the days and times with the most orders)?
- Are there particular times of the day when people spend the most money?
- Instacart has a lot of products with different price tags. Marketing and sales want to use simpler price range groupings to help direct their efforts.
- Are there certain types of products that are more popular than others?
- The marketing and sales teams are particularly interested in the different types of customers in their system and how their ordering behaviors differ



Objective

The Instacart stakeholders are most interested in the variety of customers in their database along with their purchasing behaviors. They're considering a targeted marketing strategy to see whether they have an effect on the sale of their products.



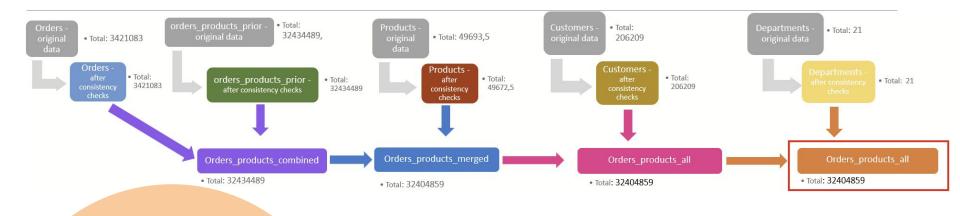
Data & Tools

Open-source datasets from Instacart: <u>"The Instacart Online Grocery Shopping Dataset 2017"</u> accessed via Kaggle on 01.02.2023. <u>Data Dictionary</u>

Excel Report <u>KL//Instacart_final_report</u>
Python Repository <u>Github Project Overview</u>

Instacart Data Population Flow

Access full excel report
Access Githup for Python Repository



Exclusion flag

Condition: max_order < 5

Observations to be removed: 1441570

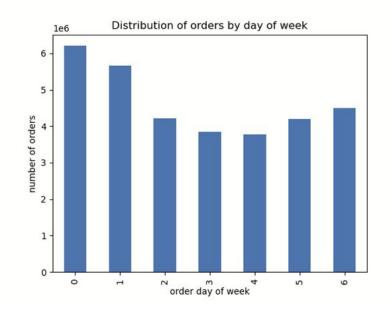
Final total count of order_products_all: 30993489

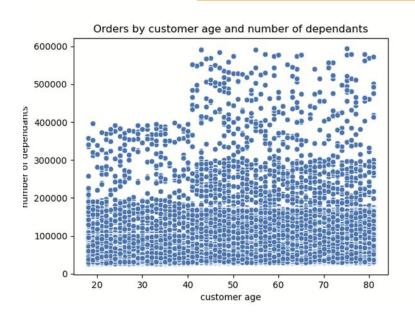
Insights on Order Behaviour

Access full excel report for additional visualisations
Access Githup for Python Repository



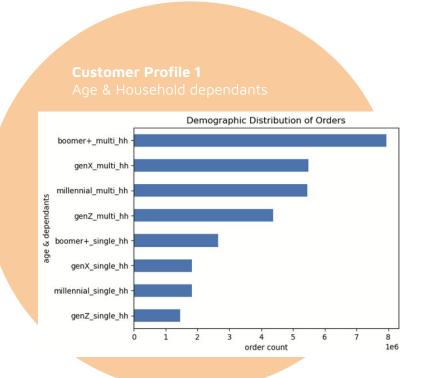
While the majority of instacart customers have an income <200.0005 it becomes visible in the scatterplot that there are more people in the 40+age range that reach an income of >200.000\$ and >300.000\$ and even a few >400.000\$ which is not visible in the age range below 40 years of age.

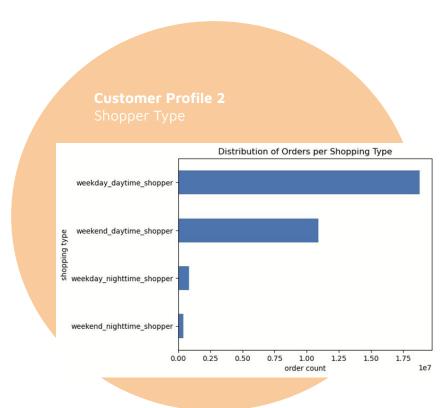




Customer Profile Segmentation

<u>Access full excel report</u> for additional visualisations and commentary <u>Access Githup for Python Repository</u>





Customer Profiles & Product Insights

<u>Access full excel report</u> for additional visualisations and commentary <u>Access Githup for Python Repository</u>







Instacart Summary & Recommendations



Within Instacart's customer base, the highest amount of orders are placed by Boomers+ (60 years and older) in a multi-person household. This group also has the highest share of above average income levels.

In terms of shopping types, most orders were placed by weekday daytime shoppers, followed by weekend daytime shoppers. Nevertheless it's important to keep in mind that most orders are placed on Saturday and Sunday when it comes to individual days.

The majority of the customer base are regular customers (who placed between 10 and 40 orders), followed by loyal customers (40+ orders) and new customers (less than 10 orders).

There is no significant difference between the customer profiles when it comes to their frequency of orders, their product choice, their loyalty or their price sensitivity.

Instacart already has a very loyal customer base across the US. They could benefit from attracting a younger audience (the 60+ year customers of tomorrow) and further incentivise customers through e.g. loyalty programs, newsletters and targeted promotions.

My Project Reflections



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