

# ***Optimizing Marketing Strategies with Customer Segmentation***

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CS2 Project  
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# Introduction

**Project's aim and goal.**

**Purpose:** To optimize marketing strategies by understanding different customer segments.

**Highlight:** The importance of targeted marketing.

# What is Customer Segmentation?

**Customer Segmentation** - Grouping customers based on similar behaviors and attributes.

## **Benefits:**

- Tailored marketing!
- Improved customer satisfaction!
- Increased sales!

# Methodology

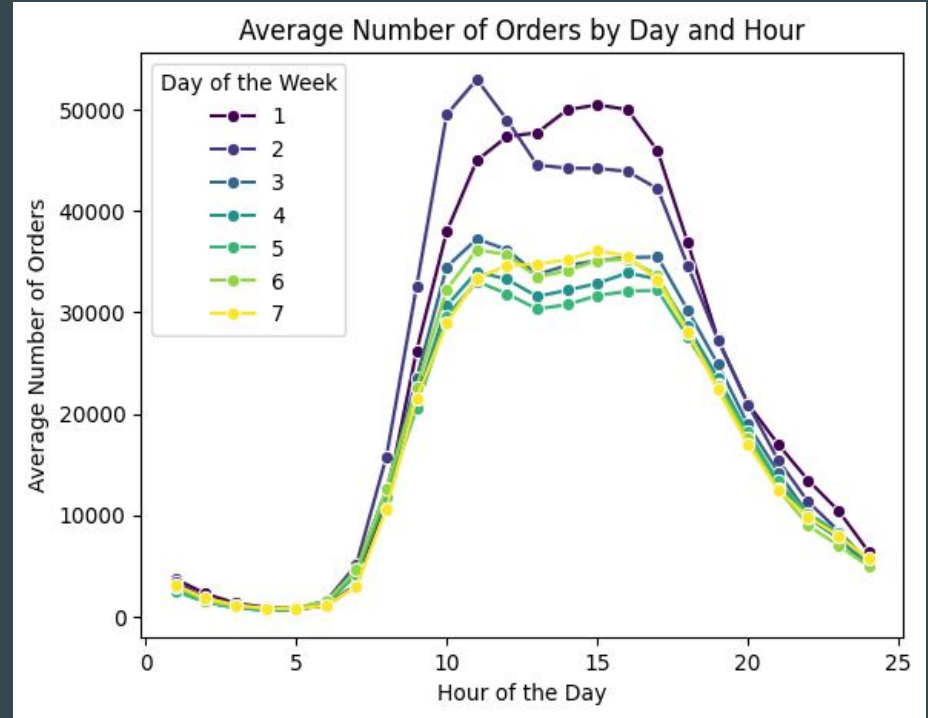
**Data Collection** : Gathered customer purchase data from the required Instacart dataset.

**Analysis Tools** : Utilized clustering algorithms to identify customer segments.

**Key Metrics:** Purchase frequency, time between purchases, and when the orders took place based on the day of the week and the hour of the day (expressed as an average).

# Data Overview

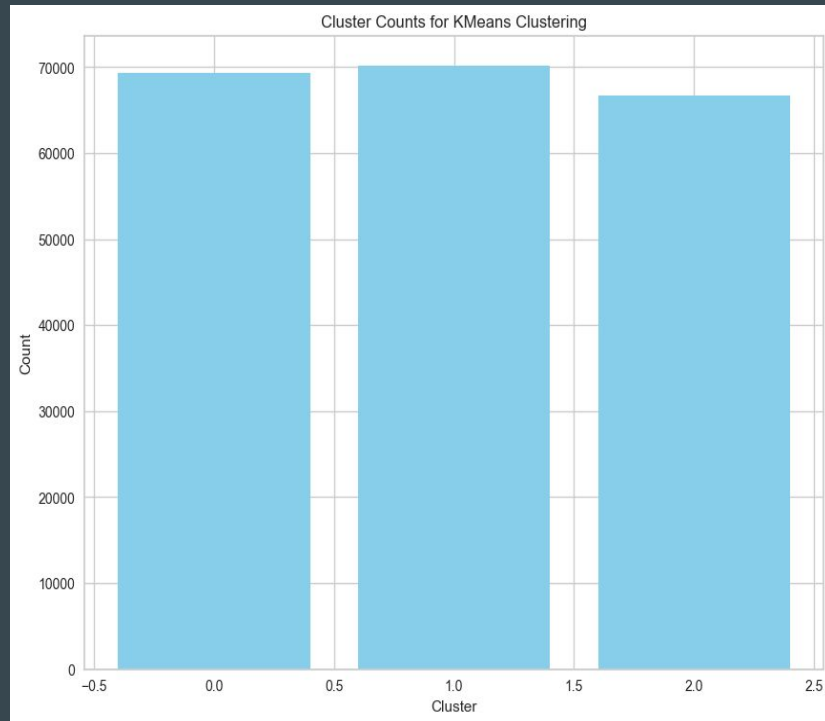
**Highlight:** This visual shows the established pattern of purchasing activity within the customer data.



# Key Findings

The chosen clustering algorithm discovered three distinct customer groups:

- Frequent Shoppers
- After Hours Shoppers
- Weekend Shoppers



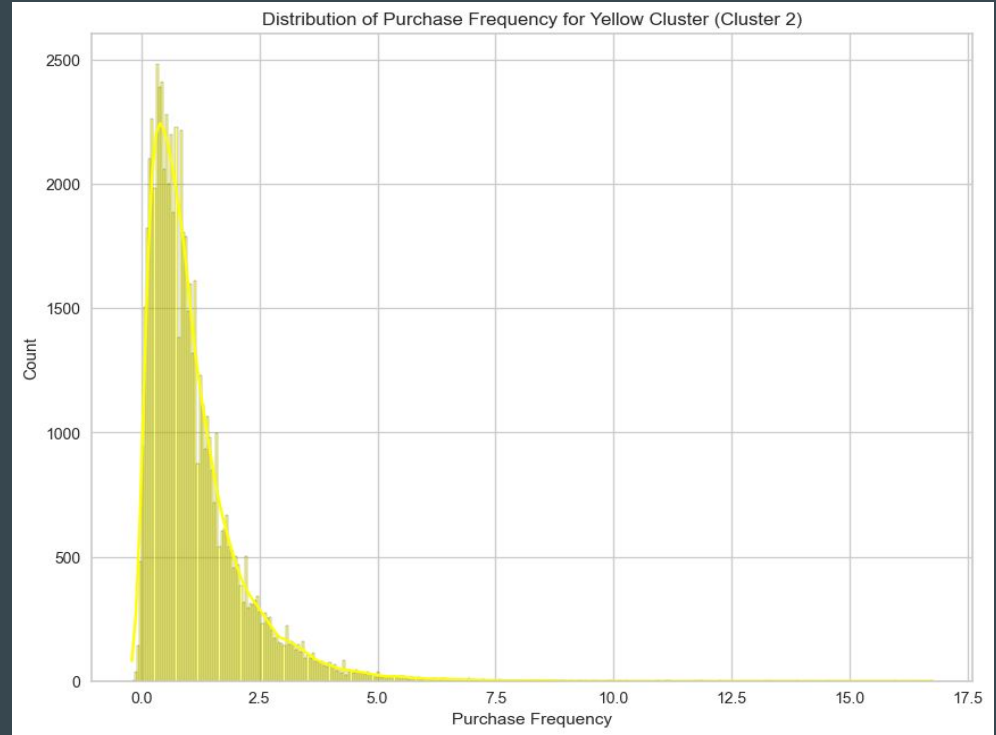
# Frequent Shoppers Cluster

## Characteristics:

- High purchase frequency
- Prefers weekday shopping

## Strategy:

- Loyalty programs and/or frequent buyer discounts



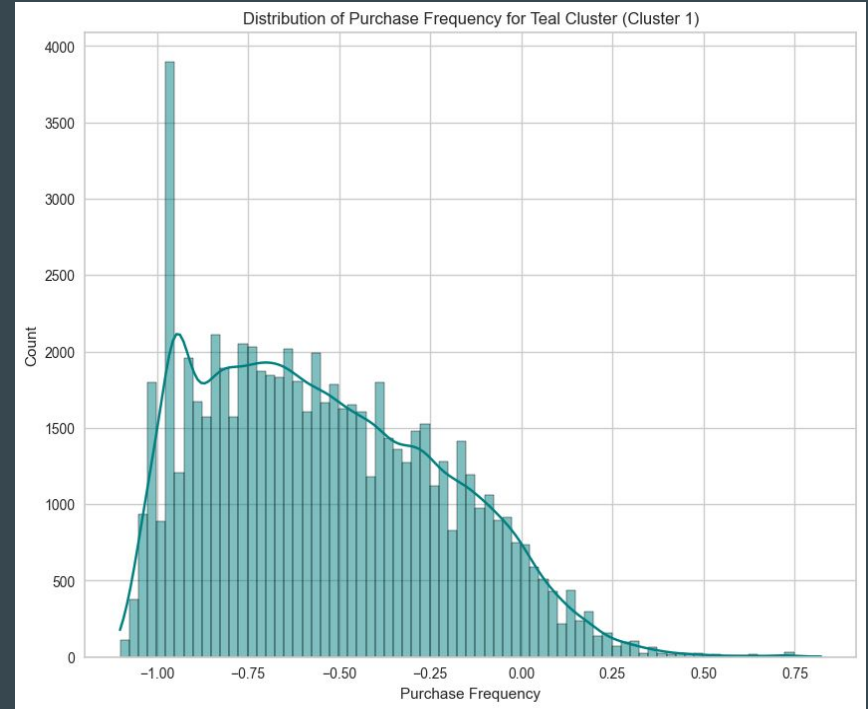
# After Hours Shoppers Cluster

## Characteristics:

- Lower purchase frequency
- Longer time between purchases
- Orders later in the day

## Strategy:

- Offer time-specific promotions





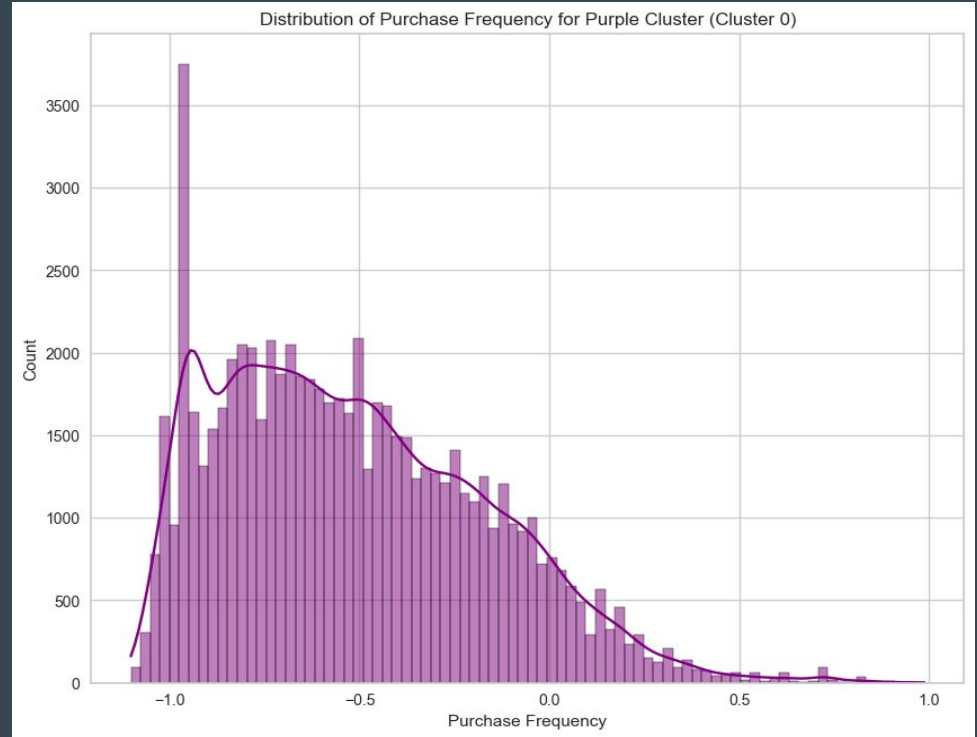
# Weekend Shoppers Cluster

## Characteristics:

- Lower purchase frequency
- Longer time between purchases
- Orders slightly earlier in the day

## Strategy:

- Send personalized reminders

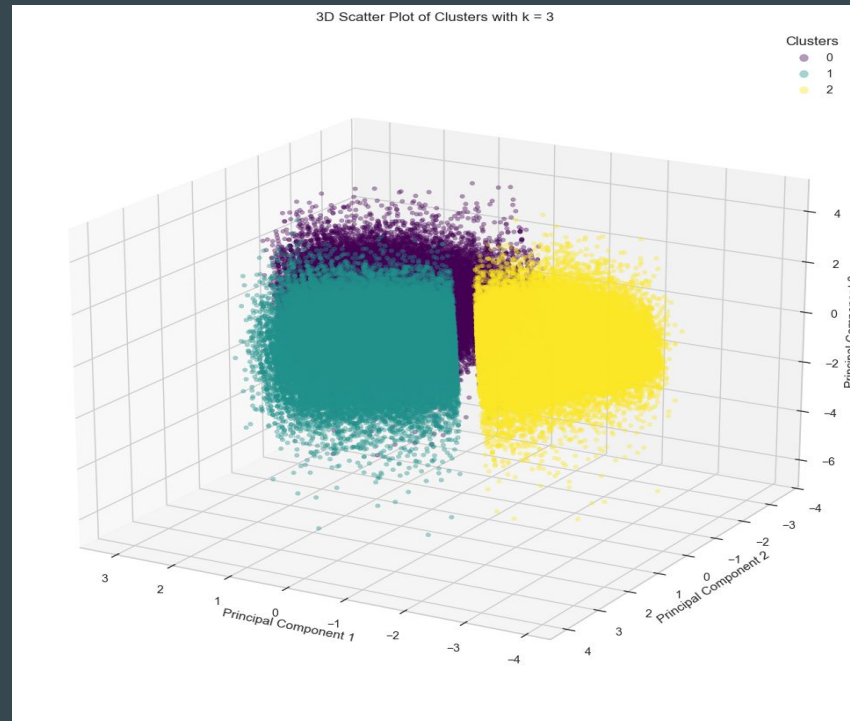


# Visual Insights

Goal:

-To be able to show clear separation in the clusters.

-To keep them as compact as possible.



# Conclusion

**Summary of findings:** Effective clustering leads to better-targeted marketing.

**Next steps:** Create the custom promotions, predict the results and implement.

**Final thought:** If you tailor your marketing efforts to your customer base you can significantly boost your customer engagement and sales!

**THANK YOU FOR HAVING ME TODAY!**

**ANY QUESTIONS?**