

Optimizing TravelTide Platform through Customer Segmentation

Introduction:

Context:

Online travel booking platform.

Goal:

Segment customers based on demographics, behavior, and perk preferences.

Assigned Perks Frequency 1750 1500 1250 Frequency 1000 750 500 250 Perk

Perk-Based Segmentation

Segments:

- 1) 1Night Free Hotel and flight
- 2) Exclusive Discounts
- 3) Free Hotel Meal
- 4) Free Checked Bag
- 5) No Cancellation Fee

(we considered 1 Night Free Hotel and Flight as the most popular perk.)

Conditions:

for example:

For first segment, Hotel Booked (Aggregation Column) and Flight Booked (Aggregation Column) should be 1 or more. And Total purchase for that customer should be more than the mean of the total purchase metric.

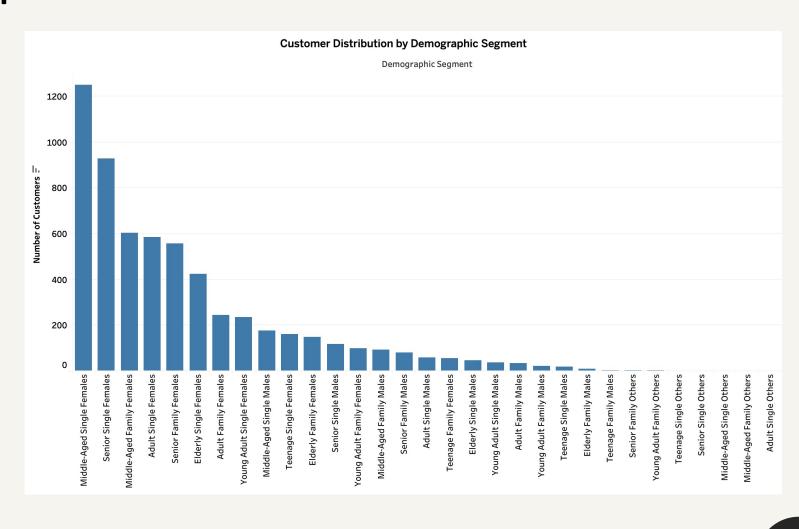
Demographic Segmentation

Segments:

Teenage Single Males Young Adult Family Females, Senior Single Females, etc.

Based on:

- 1) Age group
- 2) Gender
- 3) Children Status



K-means Clustering

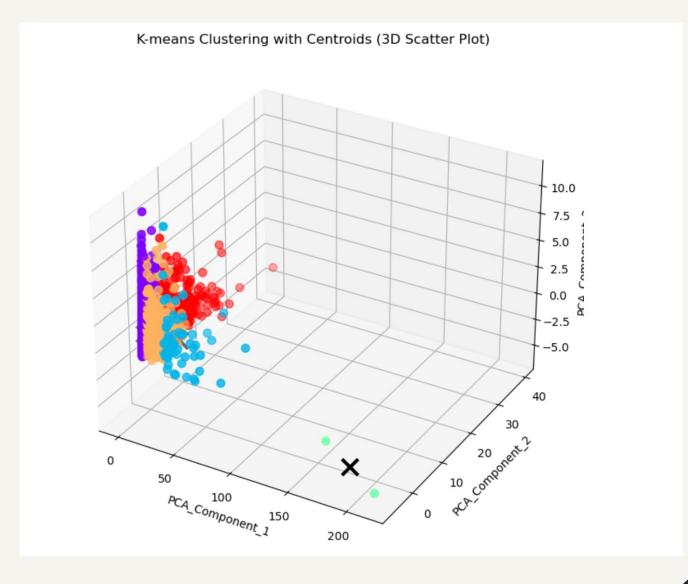
Approach:

K-means Clustering

n_component = 3
n_cluster = 5

Result:

Visual Clustering of Customer Behavior



Key Insights

Insight 1:

Overlap in "1 Night Free Hotel" and "Exclusive Discounts"

Insight 2:

Diverse Preferences in "No Cancellation Fee"

More Insights:

- Engagement Impact
- Demographic Differences
- Behavioral Insights

Conclusion

• Success: Effective Customer Segmentation

• Benefit: Revenue Growth and Enhanced User Experience

*For a detailed visual representation and interactive exploration of our segmentation analysis, please access the Tableau dashboard here.

*Here is the link to the video presentation: here