

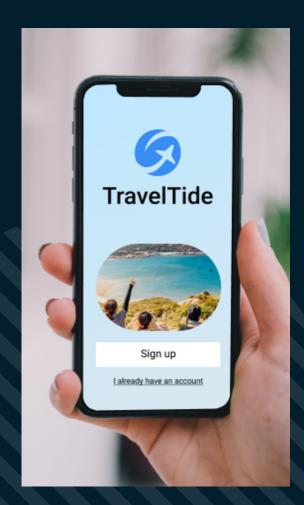
# LOYALTY PROGRAM OPTIMIZATION: ENHANCING CUSTOMER EXPERIENCE THROUGH DATA-DRIVEN CUSTOMER SEGMENTATION AND PERK ALLOCATION

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## INTRODUCTION

#### Objective:

- Identify distinct traveler segment
- Optimize perk offerings
- Increase customer satisfaction and retention to enhance Traveltide loyalty program

Implement K-Means algorithm to identify and group user segments by their preferences, enhancing the ability to tailor offers and strategies to distinct customer profiles.

## DATA SCOPE AND PERK STRATEGY:

- Users with 8 or more sessions.
- Sessions starting from January 4, 2023 till the last available date.







#### Perks:

- 1. Free Hotel Meal (Free Breakfast)
- 2. Free Checked Bag
- 3. No Cancellation Fees
- 4. Exclusive Discounts
- 5. 1 Night Free Hotel with Flight
- 6. Additional perk



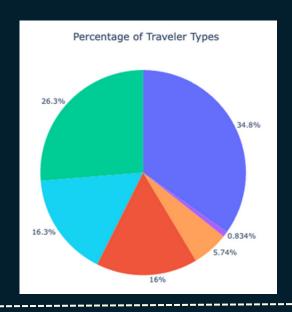


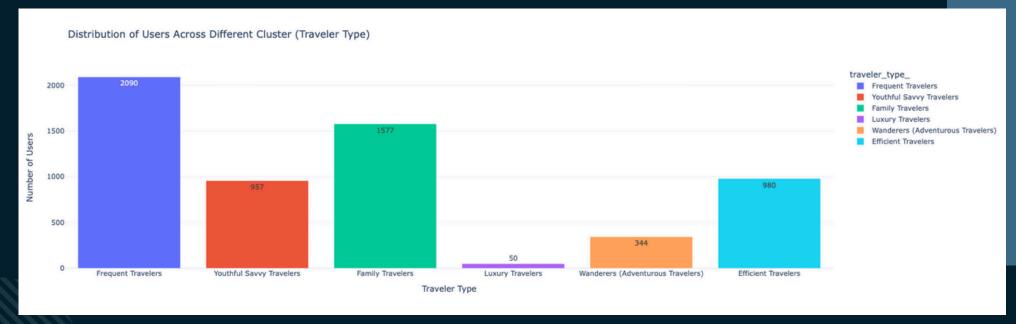


## **KEY FINDINGS**

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6 distinct clusters:
Frequent travelers, Youthful Savvy Travelers, Family
Travelers, Luxury Travelers, Wanderers, Efficient
travelers.

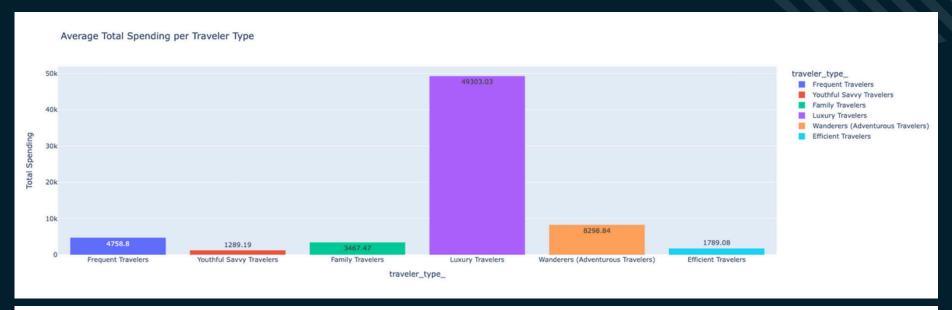


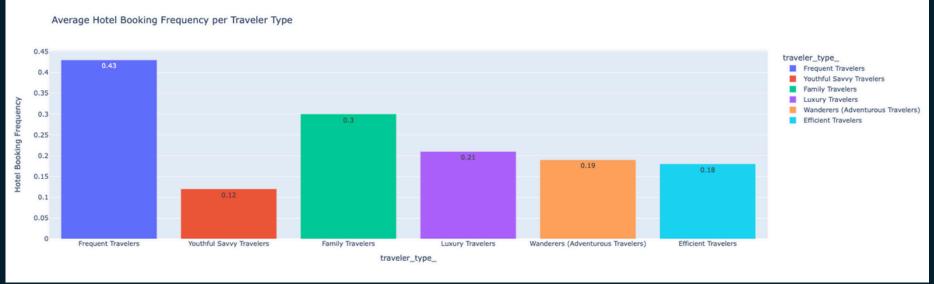


### KEY CUSTOMERS CHARACTERISTIC



Identify distinct traveler types based on their spending and booking habits.





#### LUXURY TRAVELERS PERSONA

Affluent professionals, executives, or entrepreneurs who most likely travel with their families. value highend and are willing to pay a premium for luxury and

comfort.

#### <u>user 513869</u>

Female, 41 years old

Not married, has children

Home city: newark, USA

User since: 2023-01-06

Weekday traveler

Books trips well in advance (7 months or more)

Book more hotels than flights

Takes two trips within a seven-month period

Travel long distance

Frequently cancels bookings

Spends significantly on travel

Takes advantage of discounts & saves a substantial amount of money



# PERK ALLOCATION X 101 = #

#### **Traveler Segments and Tailored Perks:**

Wanderers

Efficient Travelers

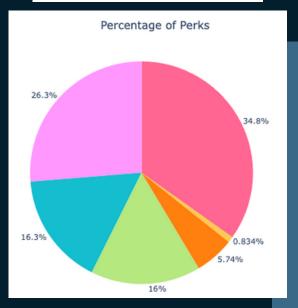
Frequent Travelers

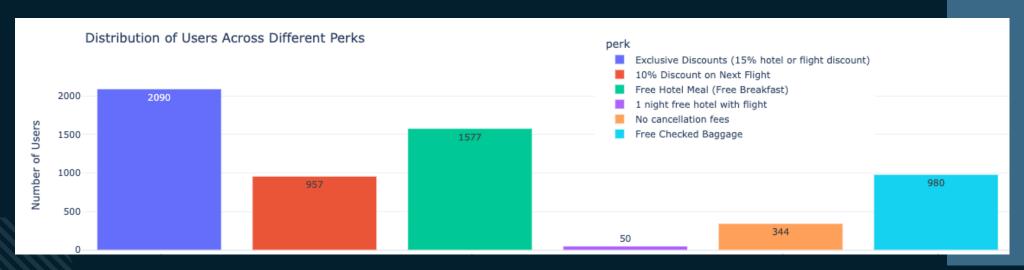
Family Travelers Luxury Travelers

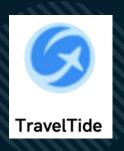
>> No cancellation fees

- >> Free Checked Baggage
  - >> Exclusive Discounts (15% hotel or flight discount)
  - >> Free Hotel Meal (Free Breakfast)
  - >> 1 night free hotel with flight
- Youthful Savvy Trvlrs >> 10% Discount on Next Flight









### RECOMMENDATIONS



- Expanding Data Collection
  - Gathering additional data such as occupation, income level, travel purpose, cancellation reason, etc.
- Merge Small Clusters with Similar Characteristics
  In this case: luxury travelers and wanderers, and give them a premium perk: 1 night free hotel with flight.
- <u>Implement Advanced Analytics</u> Employ A/B testing and predictive analytics to refine strategies and make datadriven adjustments.
- Implement a Multi-level Reward Program
   Offers tiered benefits tailored to different traveler segments
- <u>Personalize Marketing Campaigns</u>
  Develop personalized email marketing, social media ads, and promotional content aligned with each cluster's preferences and behaviors.
- <u>Develop Strategic Partnerships</u>
  For example, partner with high-end hotels for "Luxury Travelers" and budget airlines for "Youthful Savvy Travelers".