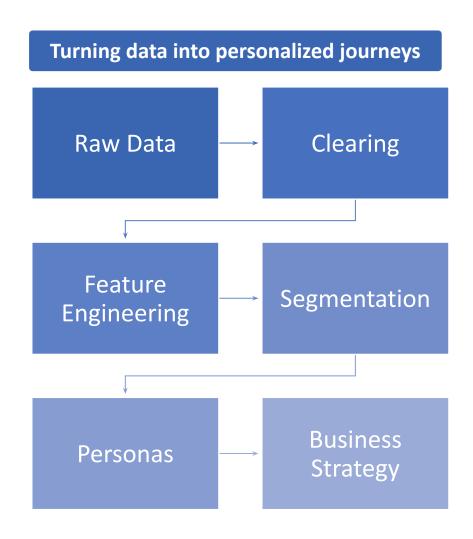
# TravelTide: Customer Segmentation for Smarter Rewards

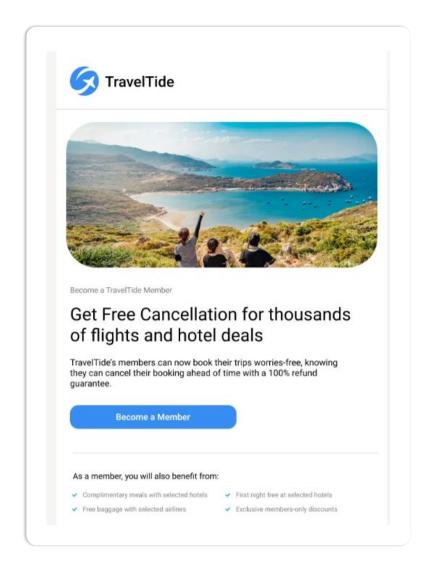
### **Purpose:**

Understand traveller behaviour to design targeted perks that grow loyalty and repeat bookings.



### **Project Overview**





### Data Preparation & Feature Engineering

### **Understanding the Data Behind Our Travelers**

- 4 sources: Users · Flights · Hotels · Sessions
- •≈ 6 000 active users · 200 000 sessions
- Key features: conversion rate, loyalty index, promo use, trip length RFM, CLTV models
- → Gives a 360° view of traveller behaviour



### Rule-Based Segmentation

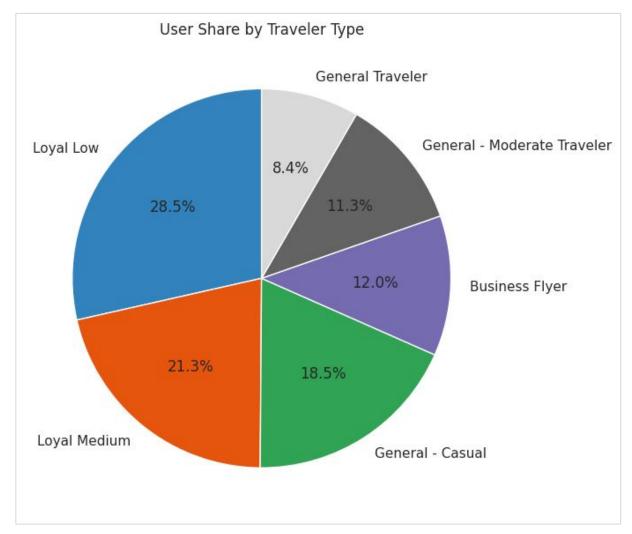
### **Segmentation Logic:**

Used RFM + CLTV + behavior cut-offs

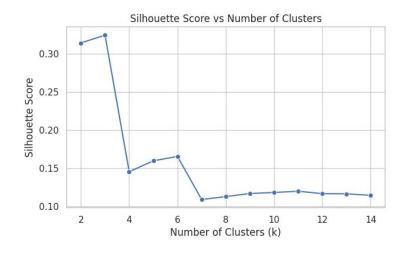
#### Example rules:

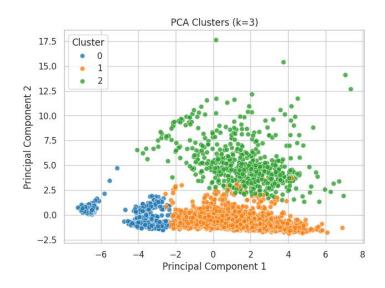
- Conversion  $> 0.6 \rightarrow Loyal$
- Promo > 0.25 → Discount Hunter
- Trip ≤ 3 days → Business Flyer

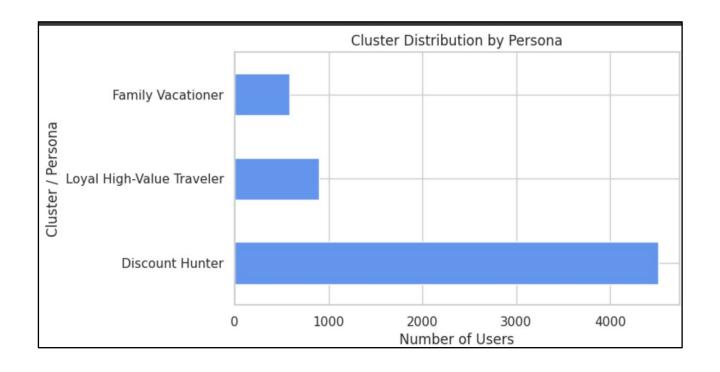
Each user assigned a persona



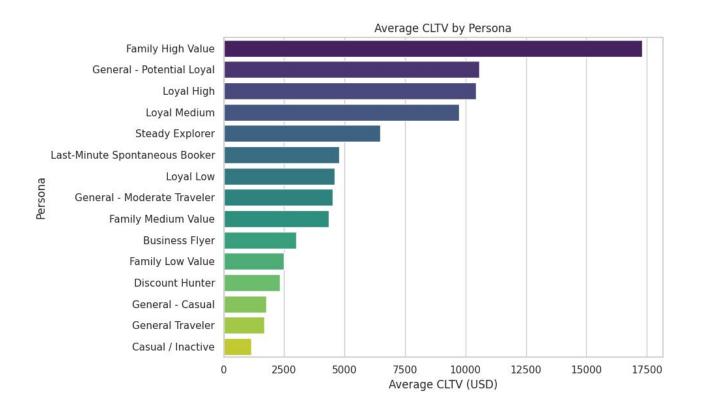
# Machine Learning Segmentation

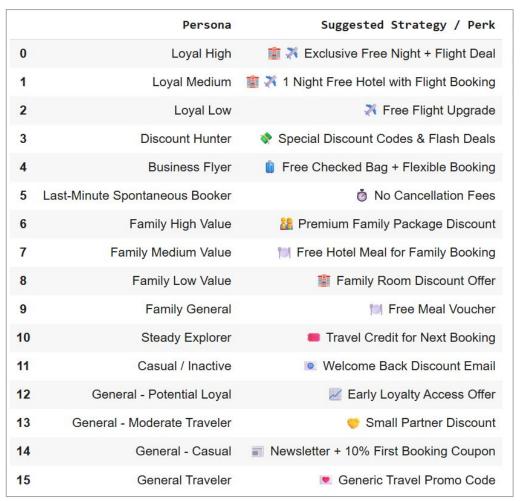




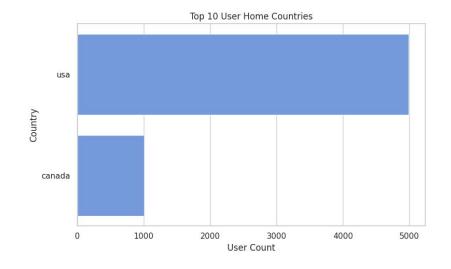


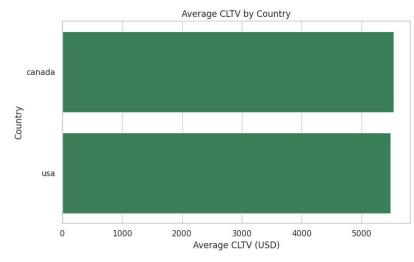
## Key Insights & Business Impact

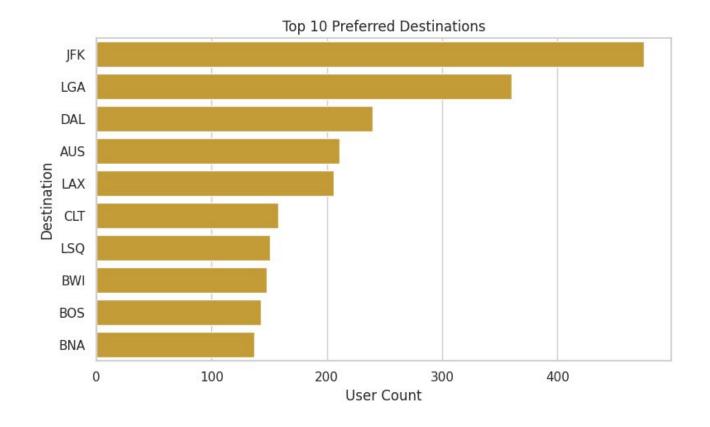




# Geographic & Behavioral Insights







### Future Steps & Takeaways

- Automate the RFM/CLTV pipeline
- Integrate real-time segmentation
- Build a dashboard to monitor key metrics continuously.

In short, this project shows how data analytics can transform TravelTide's customer relationships into measurable business growth.

## Relationship matters!

 Not just about clusters or algorithms — it's about relationships with customer. we can treat them not as data points, but as travelers with dreams and choices.

### Thank you