Comprehensive Customer Analysis & Strategic Recommendations

Executive Summary

This report analyzes customer behavior and segmentation data to derive actionable insights for improving engagement and profitability. Key areas of focus include spending habits, highest-value customers, and recommendations for targeted marketing campaigns. By addressing gaps in engagement and tailoring strategies to key demographics, the company can maximize customer lifetime value.

Exploratory Data Analysis (EDA) & Business Insights

Objective

Enhance customer retention by segmenting TravelTide's customer base into specific customer types and developing personalized rewards for each segment.

1. Data Cleaning & Filtering

- **Goal**: Prepare accurate and actionable data to ensure reliable insights.
- Approach:
 - Excluded irrelevant sessions (e.g., zero duration, minimal activity).
 - Addressed missing values and ensured correct session-user mapping.
 - Defined valid sessions as those with at least two page clicks.
- **Reasoning**: Clean and structured data ensures reliable insights to segment customers effectively based on type, leading to actionable strategies.

2. Customer Type-Based Session Insights

Key Metrics (Tailored per Type):

- Session Duration & Page Clicks: Measure engagement across different customer types.
- Booking Behavior: Track conversion trends specific to each segment.
- Cancellation Trends: Identify patterns to mitigate churn risks by type.
- **Importance**: Understanding customer type-specific engagement and behavior helps in creating tailored retention strategies.

3. User-Level Insights for Customer Types

- Metrics (Refined by Customer Type):
 - Engagement Metrics:
 - **Business Travelers**: High booking frequency and session duration.
 - Family Travelers: Group engagement, family vacation planning pages.
 - Young Singles: Spontaneous browsing patterns, quick booking conversions.
 - Booking & Cancellation Patterns: Identify frequent cancelers or potential churners by type.
- **Rationale**: Aggregating data at a user level allows the identification of trends within specific customer types, enabling personalization at scale.

4. Customer Personas & Rewards Based on Type

1. Business Travelers

- Platinum: First-class lounge access, VIP concierge, free airport-to-hotel transport.
- **Gold**: Priority boarding, free hotel with flight, free checked bags.
- **Silver**: Priority boarding, free hotel with flight.
- **Bronze**: Priority boarding, free checked bags.

2. Family Travelers

- Platinum: First-class lounge, kids stay free, family vacation planning services.
- Gold: Kids stay free, free hotel with flight.
- **Silver**: Kids stay free, free hotel with flight.
- Bronze: Kids stay free, free checked bags.

3. Dreamers (Occasional Travelers)

- **Platinum**: First booking discount, exclusive offers, lounge access.
- Gold: Free hotel with flight, priority boarding.
- Silver: Free hotel with flight, first booking discount.

Bronze: First booking discount, free checked bags.

4. Young Singles

- Platinum: Lounge access, free weekend getaway upgrades.
- Gold: Free hotel with flight, weekend getaway bonuses.
- Silver: Weekend getaway bonuses, free hotel with flight.
- **Bronze**: Free checked bags, weekend getaway bonuses.

5. Senior/Retired Travelers

- Platinum: Senior discounts, free airport-to-hotel transport, lounge access.
- Gold: Senior discounts, priority boarding, free hotel with flight.
- **Silver**: Free hotel with flight, senior discounts.
- **Bronze**: Senior discounts, free checked bags.

6. High Spenders

- Platinum: Suite upgrades, luxury lounge access, free hotel with flight.
- Gold: Free hotel with flight, luxury lounge access.
- Silver: Luxury lounge access, free hotel with flight.
- Bronze: Luxury lounge access, free checked bags.

5. Feature Engineering for Type-Specific Insights

- Developed Features:
 - Booking Frequency & Preferences: Identifies high-value business travelers and deal-seekers.
 - Engagement Metrics: Tracks session behaviors unique to each type.
 - Cancellation Patterns: Highlights churn risk within specific categories (e.g., high-risk deal-seekers).
- Why It Matters: These features enable precise segmentation and reward optimization for each customer type.

6. Next Steps: Implementation by Customer Type

- Implementation Plan:
 - Segment Users: Classify customers into types (e.g., business travelers, young singles).
 - Design Rewards Programs: Develop tiered rewards aligned with customer types and behavior.
 - Monitor & Optimize: Track engagement and retention KPIs for each segment.

- Iterate: Regularly update rewards and refine segmentation based on data trends.
- Example for Retention Strategies:
 - Business Travelers: Encourage frequent bookings with premium perks like VIP concierge services.
 - Family Travelers: Offer family vacation packages and ensure flexibility in payments.
 - Young Singles: Focus on spontaneous travel deals and adventure-driven offers.

General Takeaways by Customer Type

- Business Travelers: Emphasize premium, time-saving perks.
- Family Travelers: Focus on value-driven packages with kid-friendly offers.
- **Dreamers**: Offer attractive first-time booking discounts and exclusive promotions.
- Young Singles: Cater to spontaneity with affordable, experience-based travel packages.
- Senior Travelers: Highlight comfort, accessibility, and senior discounts.
- **High Spenders**: Provide luxury-focused incentives with upgrades and VIP treatment.

Action Items

- 1. **Refine Insights**: Use spending patterns and preferences for deeper segmentation.
- 2. Evolve Programs: Gather customer feedback to adapt rewards and offerings.
- 3. Track KPIs: Regularly monitor engagement and retention across customer types.

By implementing these strategies, TravelTide can strengthen customer relationships, enhance retention, and drive revenue growth.