

# Consumer Growth Analytics

Transforming purchase data into strategic intelligence





# The Challenge & Opportunity

## Raw Data

3,900 customer records with 18 attributes capturing behavior and transactions

## Strategic Gap

Untapped insights into loyalty drivers and revenue optimization opportunities

## Our Goal

Convert transactional data into actionable growth recommendations

# End-to-End Analytical Approach

01

## Data Engineering (Python)

Cleaned and transformed 3,900 records using Pandas, created segmentation features

02

## SQL Analysis (PostgreSQL)

Executed advanced queries to uncover customer segments, loyalty patterns, and product performance

03

## Visualization (Power BI)

Built interactive dashboard with KPIs, slicers, and trend analysis for stakeholder insights



# Key Performance Indicators

\$233K

Total Revenue  
Across all customer segments and categories

\$59.76

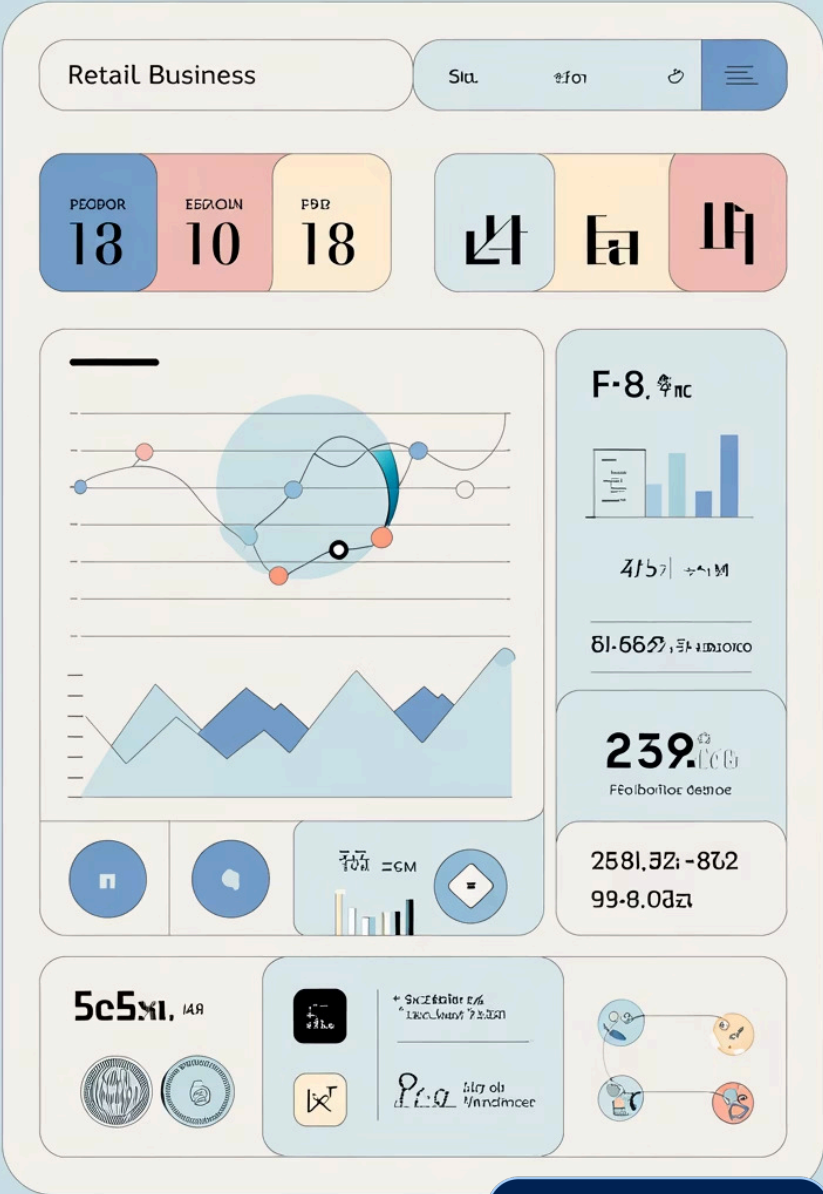
Average Order Value  
Per transaction across the customer base

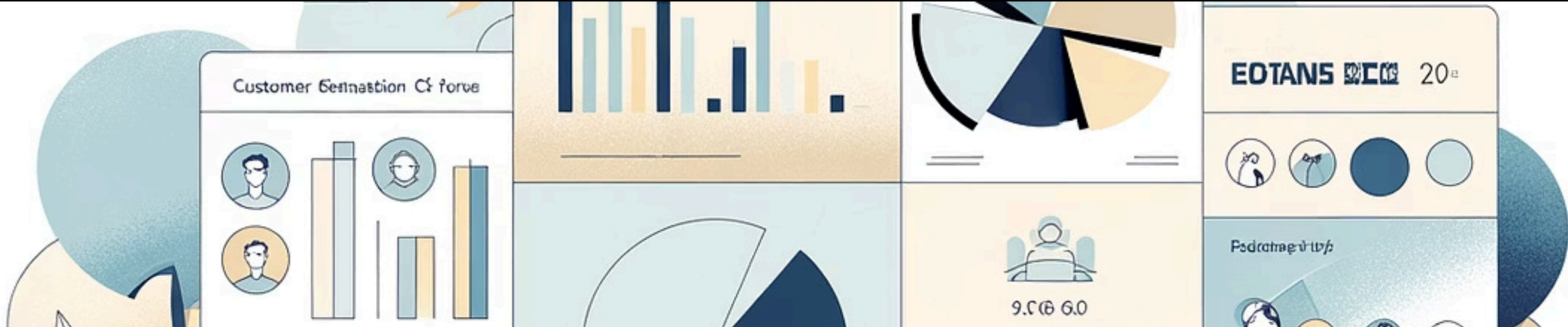
3.9K

Total Customers  
Segmented by demographics, behavior, and loyalty

3.75

Avg Rating  
Customer satisfaction across product categories





## Revenue Drivers: Segment Deep Dive

### By Gender

**Male customers** generate \$157.9K (68% of revenue)

**Female customers** contribute \$75.2K (32% of revenue)

Opportunity: Develop gender-specific marketing strategies to increase female engagement

### By Subscription Status

**Non-subscribers:** 2,847 customers, \$170.4K total revenue, \$59.87 avg spend

**Subscribers:** 1,053 customers, \$62.6K total revenue, \$59.49 avg spend

Insight: Subscription model needs value refinement to compete with standard purchasing

# Product Performance & Customer Loyalty

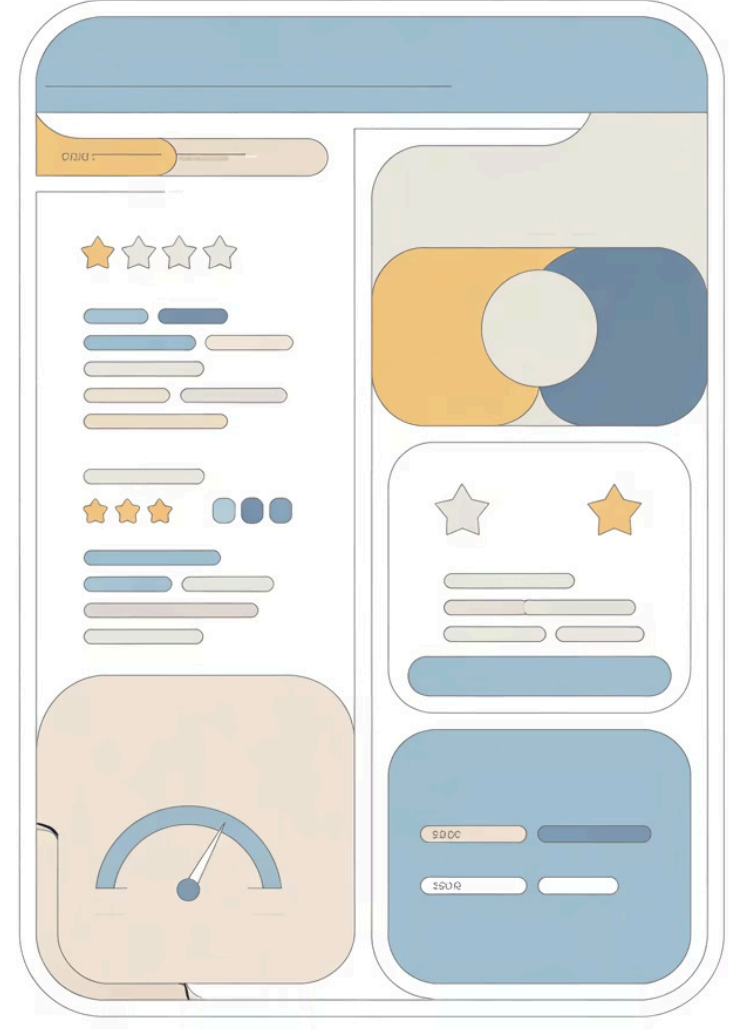
## Top-Rated Products

- Gloves (3.86 rating)
- Sandals (3.84 rating)
- Boots (3.82 rating)
- Hat (3.80 rating)
- Skirt (3.78 rating)

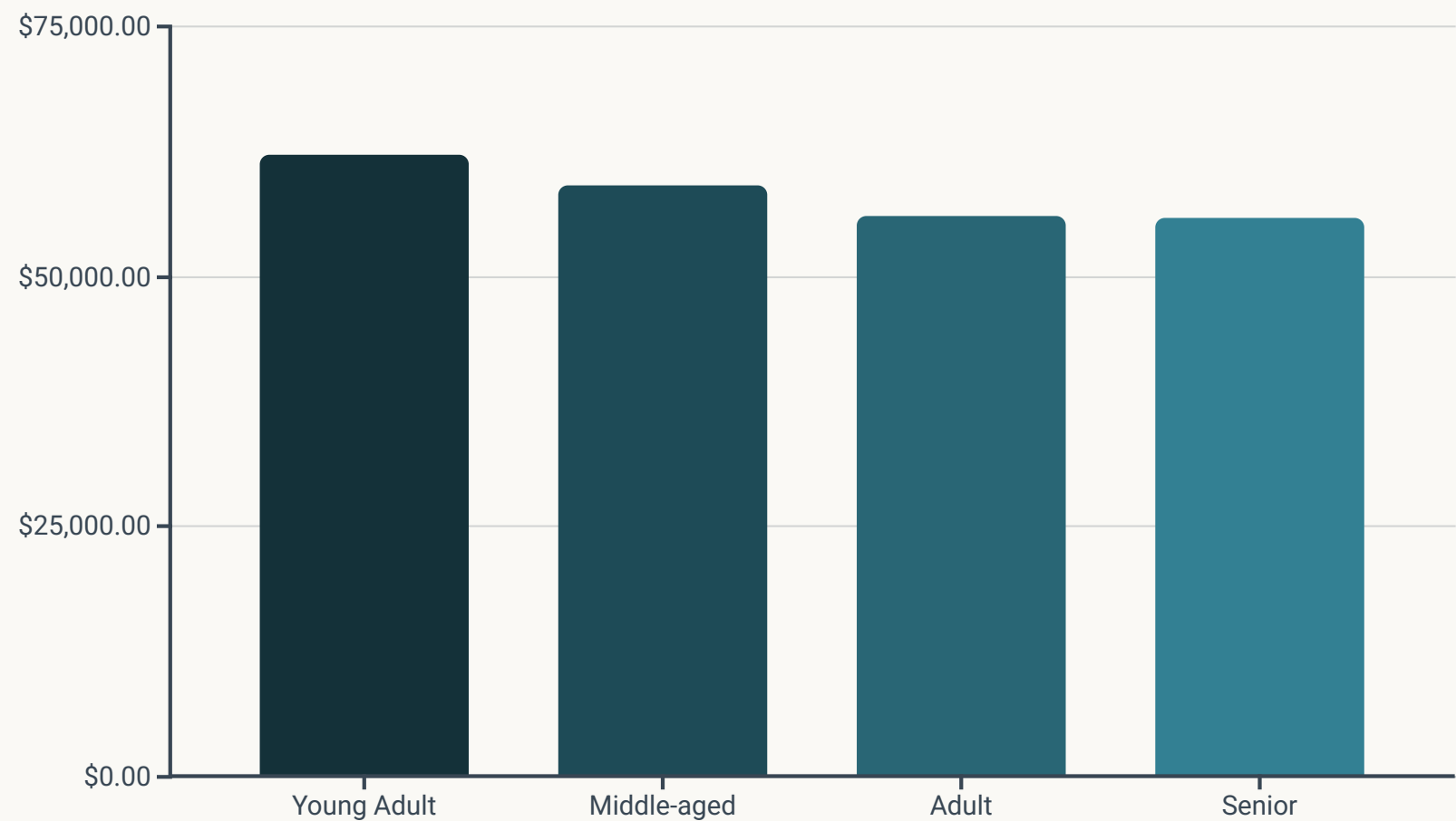
## Customer Loyalty Tiers

- Loyal: 3,116 customers (85%)
- Returning: 701 customers (13%)
- New: 83 customers (2%)

Strong base—focus on moving  
Returning to Loyal



# Age & Revenue: The Young Adult Advantage



Young Adults drive 27% of total revenue—concentrate digital marketing and social campaigns on this high-value segment.





## Behavioral Insights: Shipping, Payment & Repeat Purchases

### Express Shipping Premium

Express users spend \$60.48 avg vs. Standard \$58.46—2% higher AOV and stronger loyalty signals

### Digital Payment Engagement

PayPal, Debit, and Credit Card users average 26 lifetime purchases vs. Cash (25)—digital = repeat buyers

### Repeat Buyer Threshold

958 customers with 5+ purchases show higher subscription intent—target with loyalty incentives





# Strategic Recommendations

1

## Refine Segmentation Strategy

Target high-value Young Adults and male customers with personalized campaigns and category-specific offers

2

## Strengthen Loyalty Programs

Redesign subscription value; reward repeat buyers and digital payment users with exclusive benefits

3

## Optimize Product Portfolio

Prioritize top-rated categories in marketing; investigate low-rated items to address quality/expectation gaps

4

## Promote Express Shipping

Offer incentives for express shipping adoption to increase AOV and repeat purchase frequency



## Next Steps & Resources

### Project Artifacts Available

Complete technical analysis, Python notebooks, SQL queries, and Power BI dashboard accessible via GitHub repository.

### Connect & Learn More:

- [GitHub Repository](#)
- [Author's LinkedIn Profile](#)

### Key Takeaway

Transactional data transformed into **strategic intelligence** to drive measurable growth and competitive advantage.