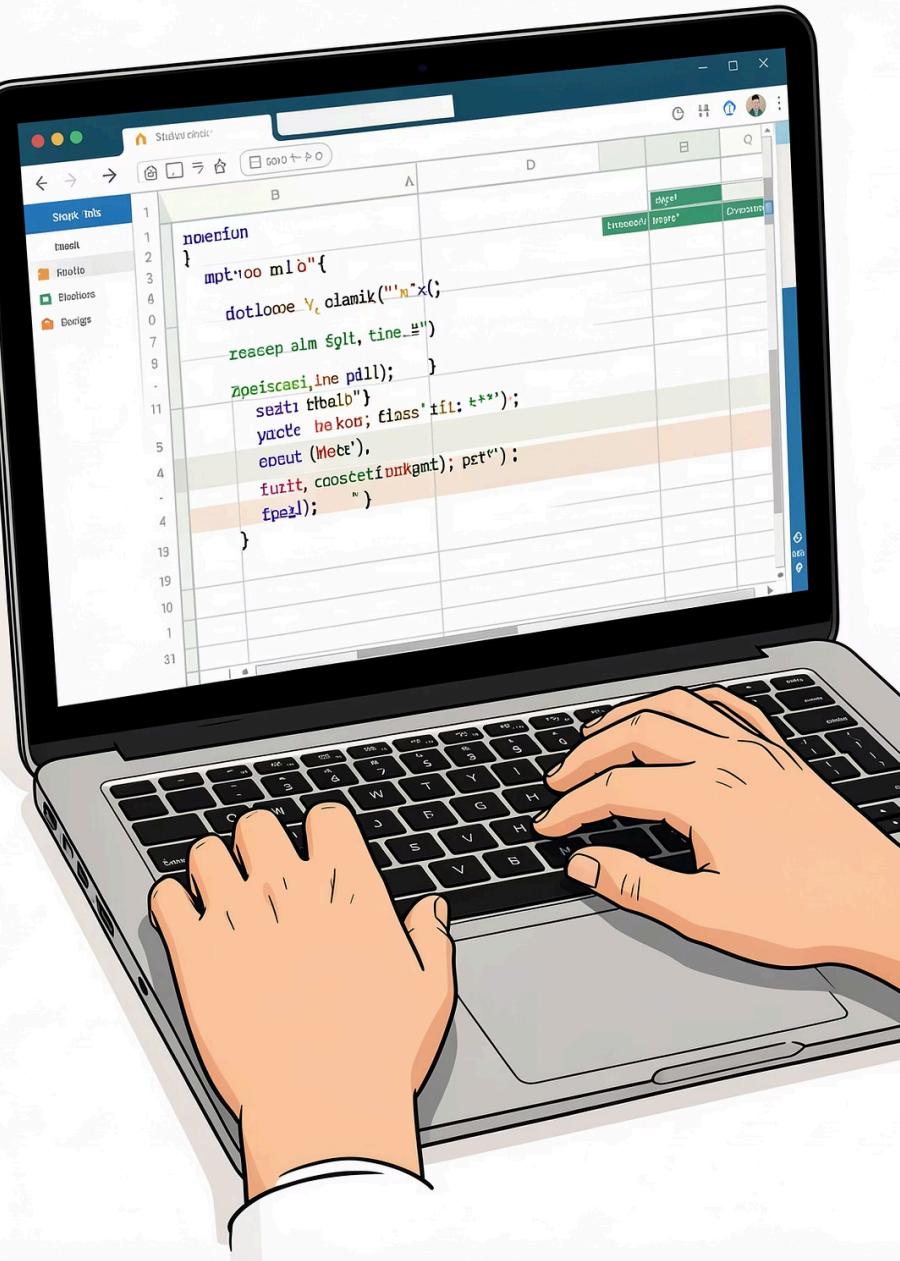


Customer Shopping Behavior Analysis



Made with GAMMA



Dataset Summary

Rows & Columns

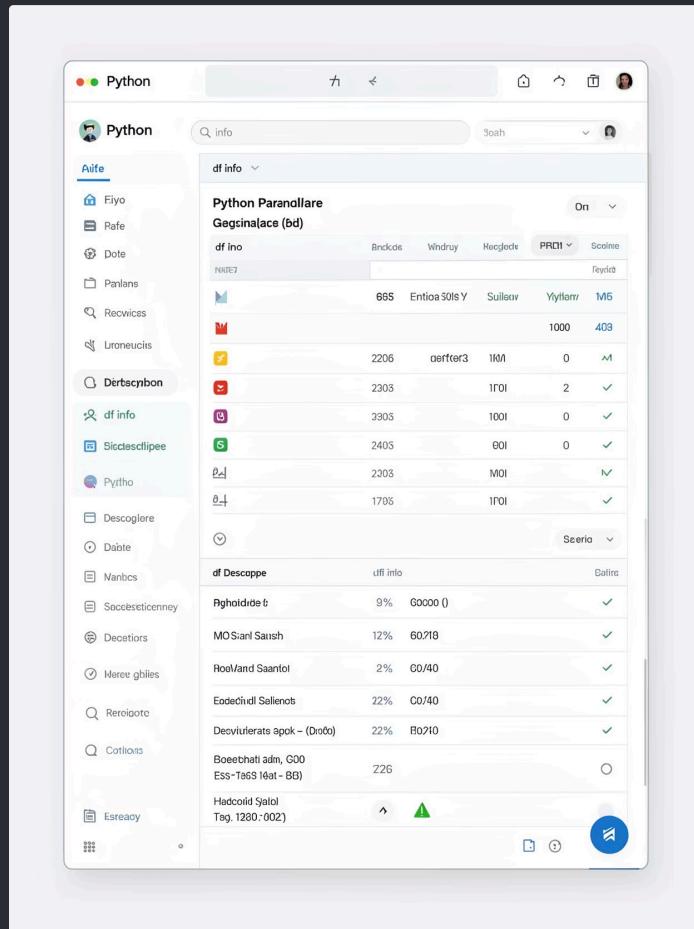
3,900 rows • 18 columns

Key Features

Demographics,
Purchase details,
Behavior signals

Missing Data

37 missing Review
Rating values



Exploratory Data Analysis

- Loaded with pandas; structure & summary checks
- Imputed Review Rating by category median
- Renamed columns to snake_case
- Engineered age_group & purchase_frequency_days

SQL Analysis – Business Questions

Revenue by Gender

Male: 157,890 •
Female: 75,191

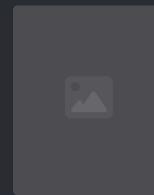
Subscribers vs Non

Yes: 1,053
customers • Avg
spend \$59.49 •
Revenue 62,645

Avg Purchase \$59.76 (overall)

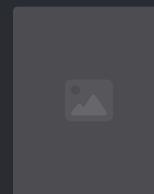


Top Products & Discounts



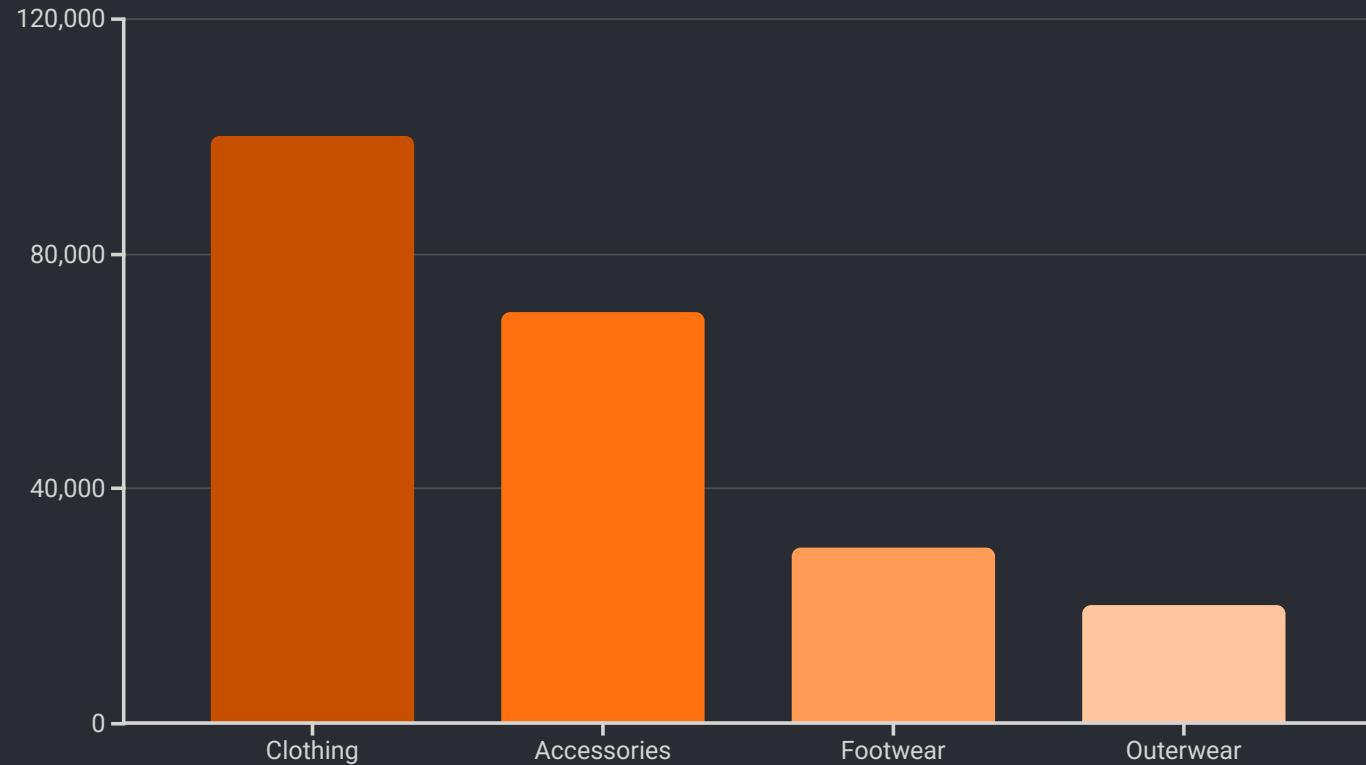
Top Rated

Gloves 3.86 • Sandals 3.84 •
Boots 3.82 • Hat 3.80 • Skirt
3.78



Discount-Dependent

Hat 50% • Sneakers 49.66% •
Coat 49.07% • Sweater 48.17%
• Pants 47.37%



Revenue by Category

Clothing leads; prioritize assortment & margin management

Sales by category: Clothing 2,000 •
Accessories 1,500 • Footwear 700 •
Outerwear 400

Dashboard Highlights (Power BI)

Key Metrics

Customers 3.9K •

Avg purchase

\$59.76 • Avg rating

3.75

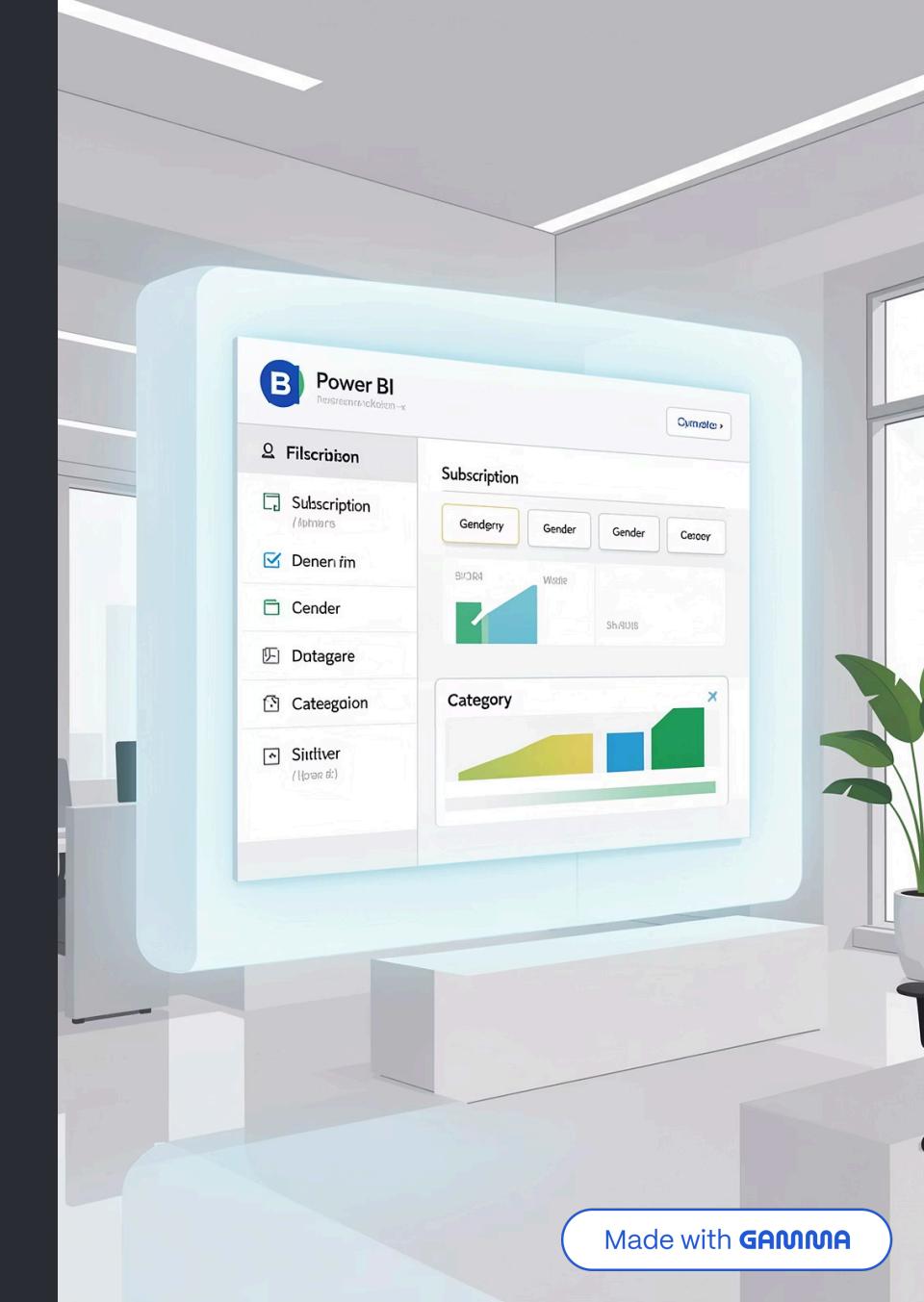
Subscription Split

Yes 27% • No 73%

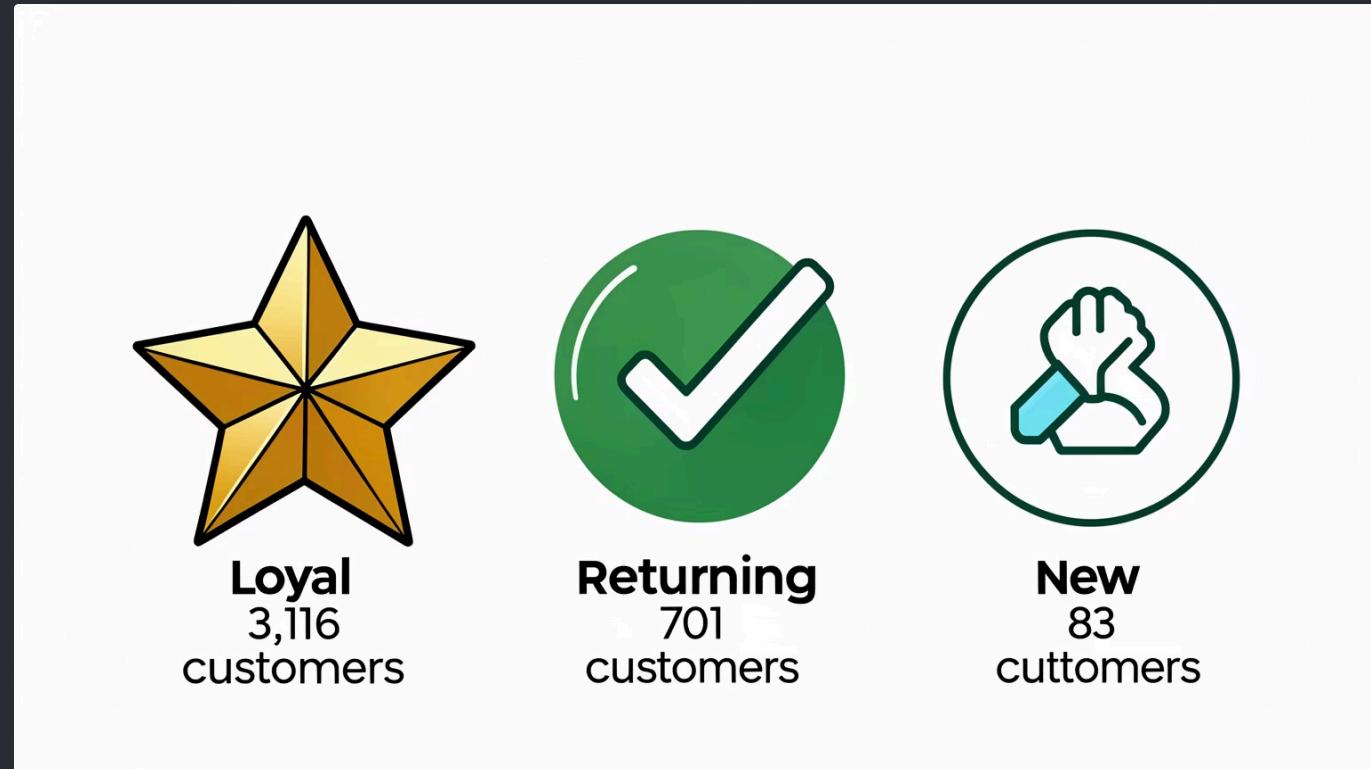
Shipping Insight

Standard \$58.46 •

Express \$60.48



Customer Segmentation



Loyal

3,116 customers

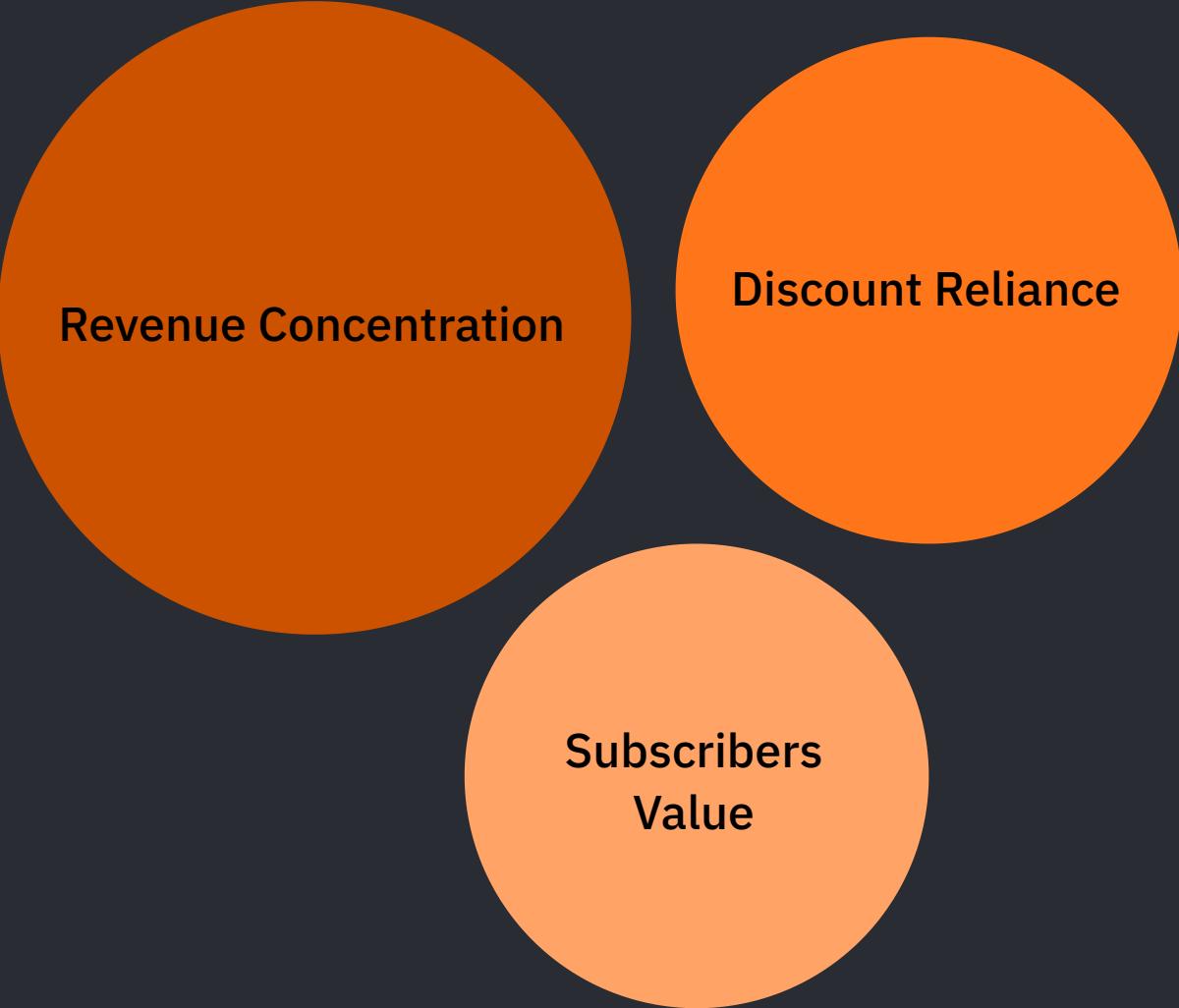
Returning

701 customers

New

83 customers

Repeat buyers and subscription correlation reviewed



Revenue Concentration

Discount Reliance

**Subscribers
Value**

Visual summary: focus categories, discount risk, subscriber strategy

Business Recommendations

1

Boost Subscriptions

Promote exclusive subscriber benefits

2

Loyalty Programs

Reward repeat buyers to increase loyalty

3

Review Discounts

Balance sales lift with margin control

4

Product Positioning

Highlight top-rated & best-selling items

5

Targeted Marketing

Focus on high-revenue age groups & express-shipping users