



Customer Shopping Behavior Analysis

Uncovering insights from transactional data to guide strategic business decisions.



Project Overview & Dataset

Project Goal

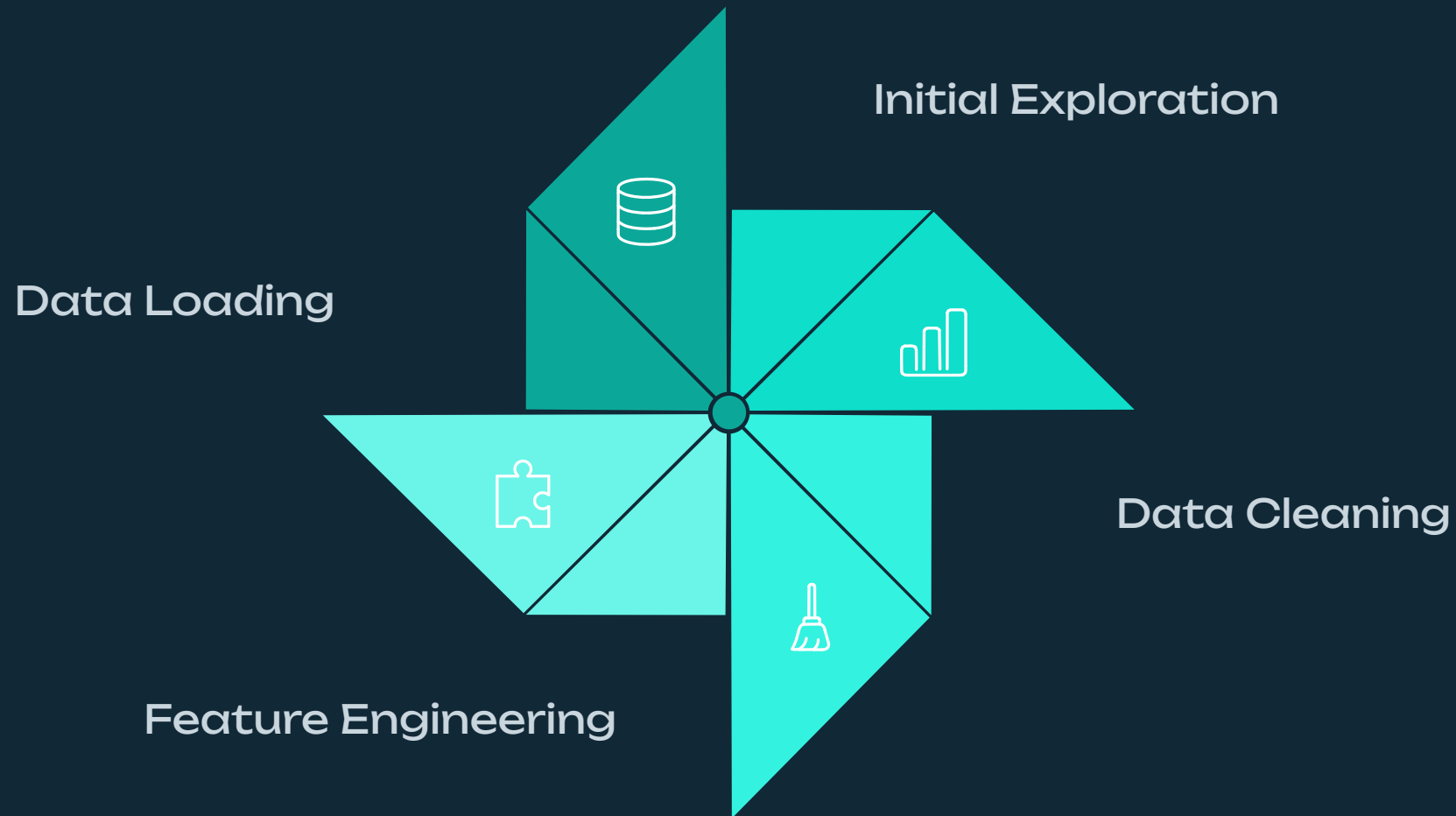
Analyze 3,900 purchases to understand spending, segments, and preferences.

Guide strategic business decisions.

Dataset Snapshot

- 3,900 Rows, 18 Columns
- Key Features: Demographics, Purchase Details, Shopping Behavior
- Missing Data: 37 values in Review Rating

Exploratory Data Analysis (Python)



Our Python-based EDA involved data loading, initial exploration, handling missing values, standardizing columns, and engineering new features for deeper insights.

Data Analysis (SQL) - Key Insights



Revenue by Gender

Male: \$157,890

Female: \$75,191



High-Spending Discount Users

Identified 839 customers.



Top 5 Products by Rating

Gloves, Sandals, Boots, Hat, Skirt.



Shipping Type Comparison

Express: \$60.48 avg.

Standard: \$58.46 avg.

A vibrant illustration of a diverse group of people in business attire, holding shopping bags, standing in front of a glowing green background with various icons representing technology, communication, and commerce. The scene is set against a backdrop of stylized green foliage and a bright, glowing green light source. The group consists of several individuals, including men and women of various ethnicities, all smiling and looking towards the center. They are holding several shopping bags, suggesting a successful business transaction or a group outing. The background is filled with various icons, including a magnifying glass, a computer monitor, a document, a shopping bag, and a magnifying glass over a document, all enclosed in glowing green circles. The overall atmosphere is one of positivity, growth, and technological advancement.

GAMMA

Customer Behavior Dashboard



Power BI Dashboard: Visualizing Insights

Interactive dashboard presenting key metrics: customer count, average purchase, review rating, and detailed breakdowns by category and age group.

Business Recommendations



Boost Subscriptions

Incentivize new sign-ups.



Develop Loyalty Programs

Reward repeat buyers.



Prioritize High-Revenue Categories

Focus marketing efforts.



Target High-Spending Age Groups

Tailor campaigns.



Balance Discounts & Margins

Optimize profitability.