Diwali Sales Analysis

KEY INSIGHTS & STRATEGIC RECOMMENDATIONS
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Executive Summary

- **Total Revenue:** ₹106.6M
- Key Segments Driving Sales:
 - ► Female shoppers (65% of revenue)
 - Adults aged 30-39 (₹34.5M revenue)
- **Top Performing State:** Uttar Pradesh (₹19.4M)
- ► Highest-Growth Category: Food & Grocery (₹33.9M revenue)

Data Overview

- **Dataset:** 11,251 transactions, 15 features
- Key Variables Analyzed:
 - Customer demographics (Age/Gender/Location)
 - Purchase behaviour (Orders/Spending)
 - Product categories
- Data Quality:
 - ► Removed 12 null records
 - ► Enhanced with RFM segmentation

Demographic Insights

- ▶ Gender Analysis:
- ▶ Female customers dominate:
 - ▶ 65% of customer base
 - ▶ 65% of total revenue
- Male customers show higher average spending (₹9,452 vs ₹9,146)
- ► Age Group Performance:
- ▶ Top segment: 30-39 years (31% of customers, 32% of revenue)
- ▶ **High-potential segment:** 20-29 years (28% of customers)
- ANOVA confirms significant spending differences between age groups (p=0.0104)

Geographic Hotspots

- ► Top States by Revenue:
- Uttar Pradesh (₹19.4M)
- Maharashtra (₹14.4M)
- Karnataka (₹13.5M)
- ► High-Value Zones:
- Northern states show highest average spending (Delhi: ₹10,511)
- Western zone contributes 28% of total revenue

Product Performance

- ► Top Categories by Revenue:
- ► Food & Grocery (₹33.9M)
- ► Fashion (₹16.5M)
- ► Electronics (₹15.6M)
- Order Volume Leaders:
- ► Fashion (2,100+ orders)
- ► Food & Grocery (1,850+ orders)

Customer Segmentation (RFM)

- High-Value Segments Identified:
- ▶ **Champions** (12%): High spenders, recent purchases
- ► Loyal Customers (18%): Frequent buyers
- ► At Risk (22%): Declining engagement
- Opportunity:
- 40% of customers in "Need Attention" segment show high spending potential

Recommendations

► Targeted Marketing:

► Focus on female shoppers (30-39) in UP/Maharashtra with Fashion & Electronics bundles

Category Expansion:

▶ Increase Food & Grocery inventory by 25% for next Diwali season

Customer Retention:

Launch loyalty program for "At Risk" segment (₹1,000 welcome bonus)

Geographic Strategy:

▶ Open 3 new fulfilment centre's in Northern India

Q&A

- Open floor for discussion
- ► Contact: ankitparwatkar35@gmail.com

Thankyou

A Presentation By Ankit Parwatkar