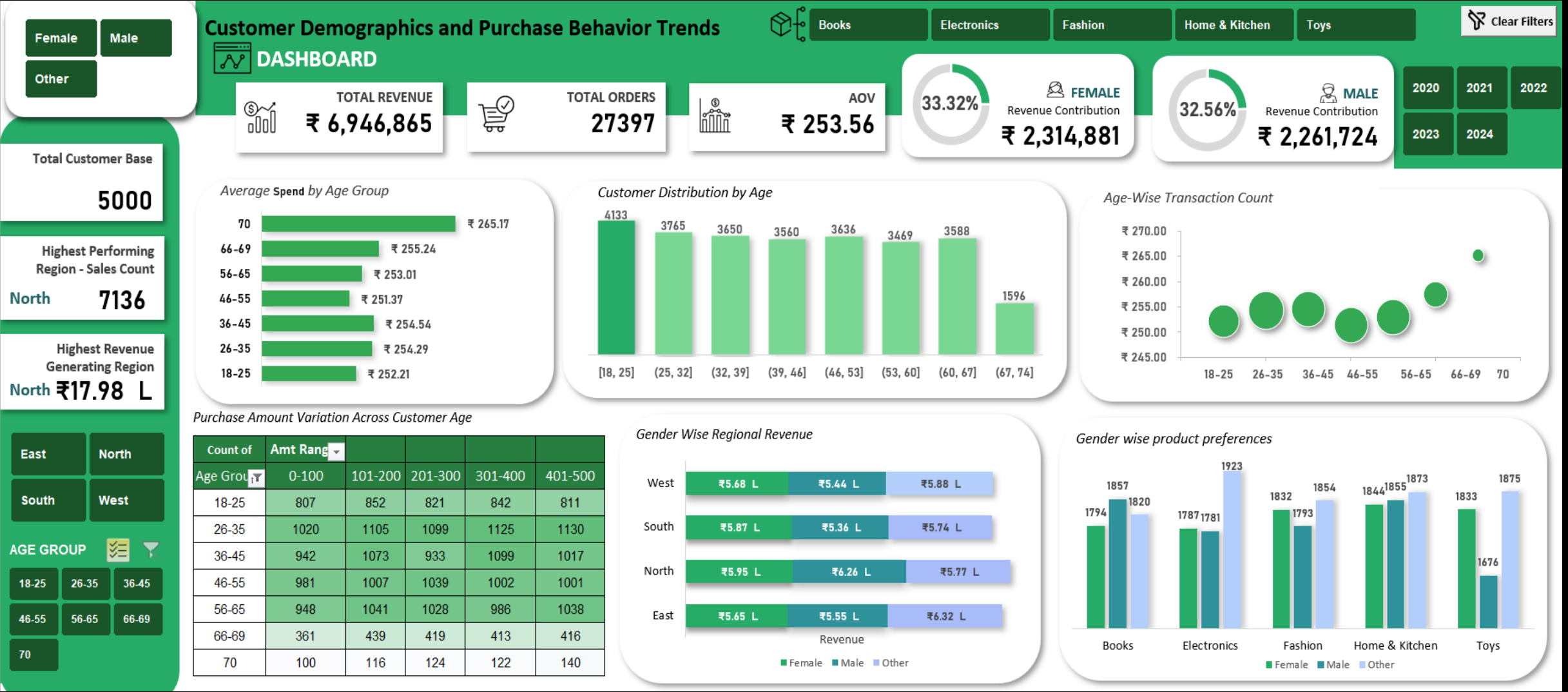




# **CUSTOMER DEMOGRAPHICS AND PURCHASE BEHAVIOR ANALYSIS**

Presented By

A FAZMINA



# Sales & Performance Dashboard



Books

Electronics

Fashion

Home & Kitchen

Toys



Clear Filters



Total Customer Base

5000



TOTAL REVENUE

₹ 6,946,865



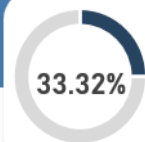
TOTAL ORDERS

27397



AOV

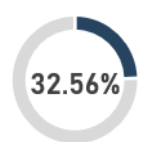
₹ 253.56



FEMALE

Revenue Contribution

₹ 2,314,881

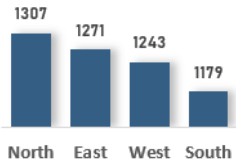


MALE

Revenue Contribution

₹ 2,261,724

## Customer Base Concentration



Female

Male

Other

2020

2021

2022

2023

2024

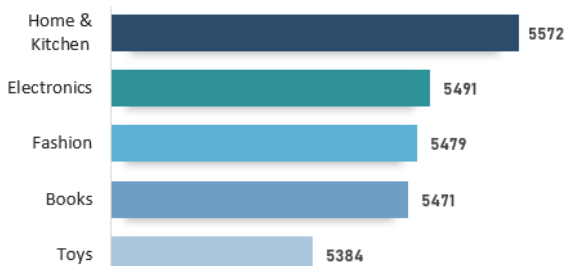
East

North

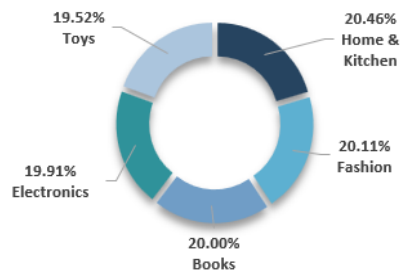
South

West

## Product Category - wise Purchase Count



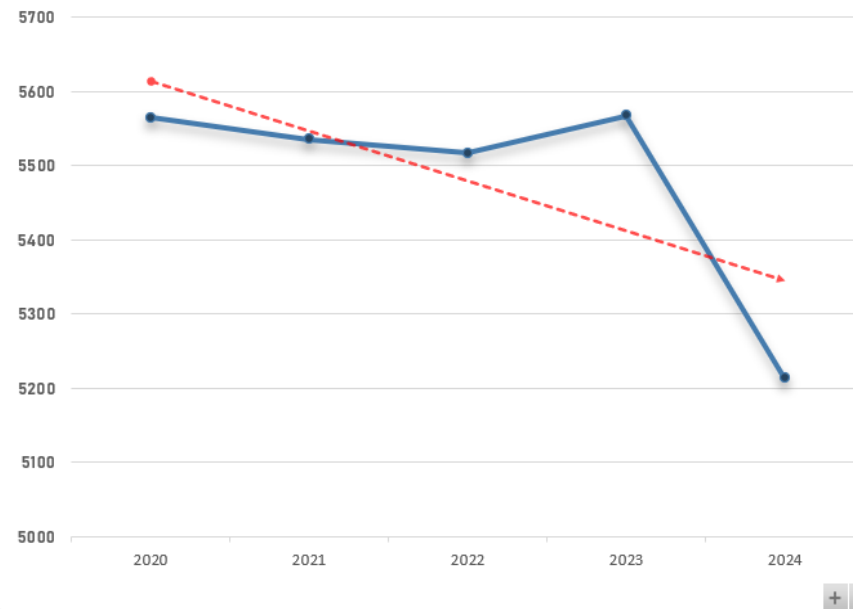
## Product Category-Wise Revenue Distribution



## Product category-Wise Monthly revenue



## Monthly Purchase Trend



# AGENDA

- **Introduction & Objective**
- **Insights & Findings**
- **Interactive dashboard Demonstration**
- **Strategic Recommendations**
- **Projected Business Impact**
- **Discussion & Q&A**

# INTRODUCTION & OBJECTIVE

## **Purpose**

The objective of this analysis was to identify the purchase behavior trends across customer demographics and product categories to support data-driven marketing and inventory strategies

## **Methodology**

Data from 2020-24 sales transactions was analyzed using Excel. Metrics such as Purchase Counts, Purchase amounts and demographic segmentation were examined to uncover patterns in purchasing behavior

Two thin, dark gray lines intersect on a light gray background. One line is nearly vertical, and the other is nearly horizontal, creating a large 'X' shape that divides the page.

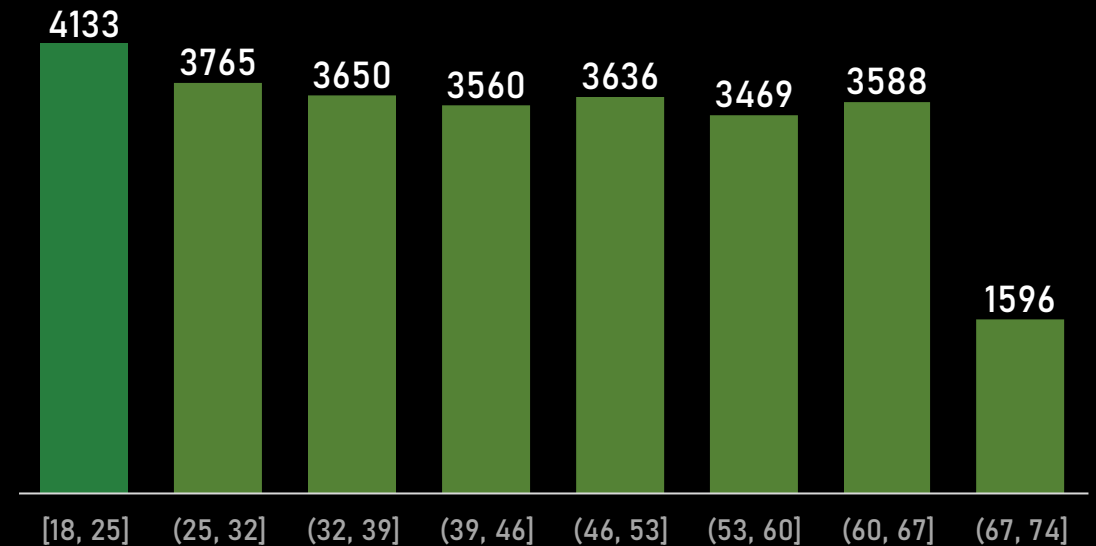
# CUSTOMER DISTRIBUTION BY AGE

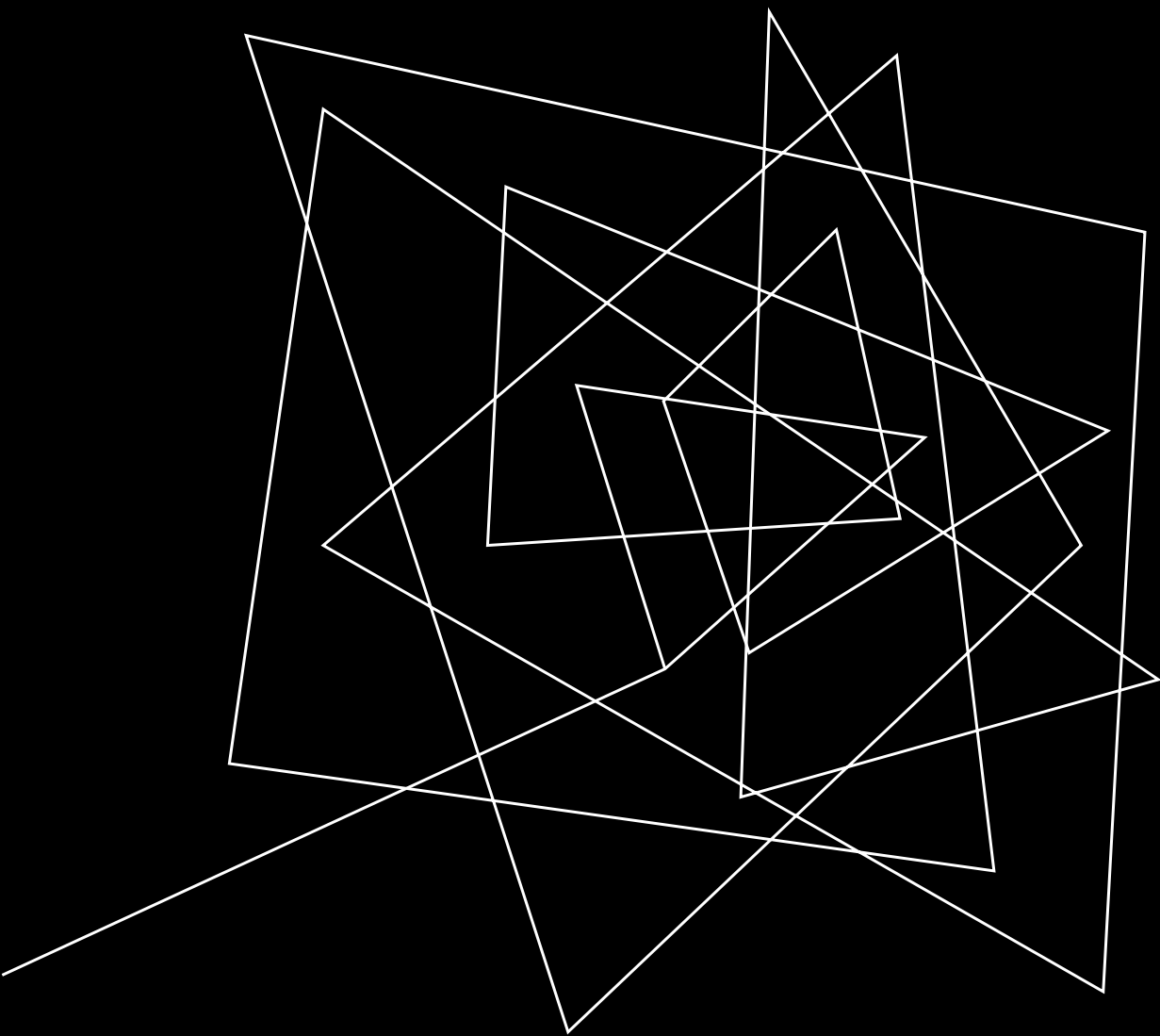
# INSIGHTS

- Customer aged **18-25** form largest group
- Customers **66+** are the smallest group
- Young customers dominate the retails store's customer base

## BUSINESS ACTIONS

- **Youth Engagement:** Create youth-focused marketing campaigns (student discounts).
- **Senior Attraction:** Explore reasons for low senior engagement ( product relevance, accessibility, store experience)
- **Demographic Balance:** Run family-oriented promotions and offer bundled products appealing to multiple generations.





VARIABILITY IN  
PURCHASE AMOUNTS  
ACROSS PRODUCT  
CATEGORY

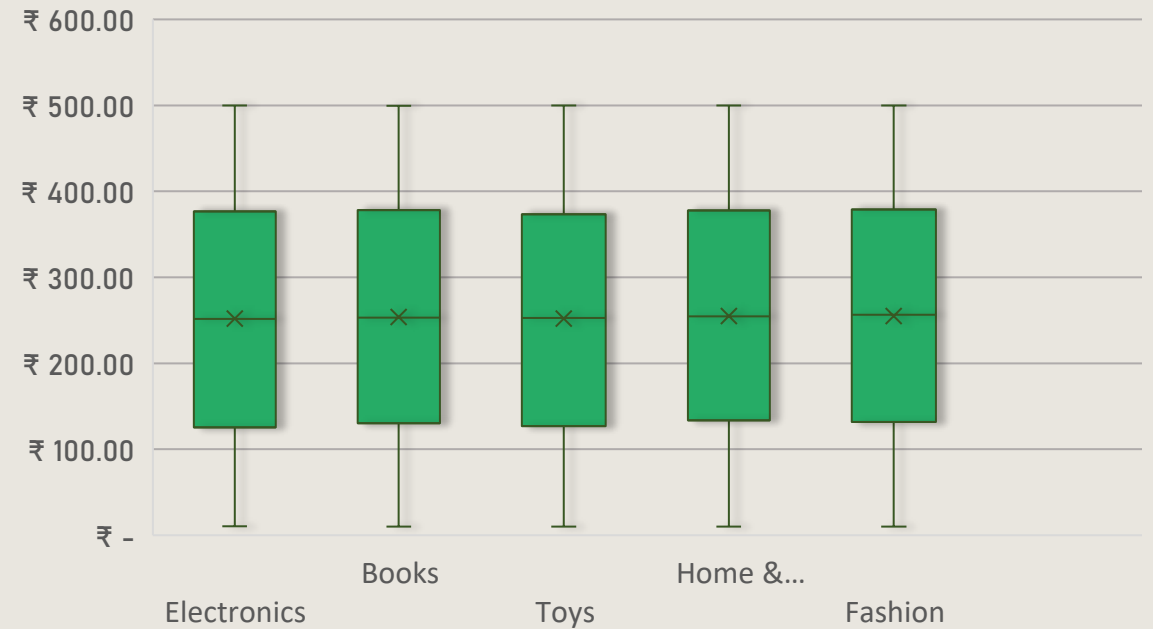
# INSIGHTS

## Similar Distribution Across Categories

- **Median** purchase amounts are closely aligned (~₹252–₹256) across all categories.
- Price variability is consistent — similar **interquartile ranges and maximums** (~₹500).

## Slightly Higher Entry Price in Home & Kitchen & Fashion

- **Q1** values are marginally higher (~₹133 vs ₹125 in Electronics).



Product Category	Q1	Median	Q3	Average	Maximum	Total Revenue	Revenue Share
Electronics	₹ 125.47	₹ 251.78	₹ 376.62	₹ 125.41	₹ 500.00	₹ 1,382,889	19.91%
Books	₹ 130.21	₹ 253.04	₹ 378.10	₹ 123.77	₹ 499.69	₹ 1,389,448	20.00%
Toys	₹ 127.14	₹ 252.59	₹ 373.15	₹ 123.16	₹ 499.90	₹ 1,355,855	19.52%
Home & Kitchen	₹ 133.80	₹ 254.66	₹ 377.97	₹ 121.60	₹ 499.82	₹ 1,421,337	20.46%
Fashion	₹ 131.87	₹ 256.45	₹ 378.99	₹ 122.72	₹ 499.99	₹ 1,397,337	20.11%

## INSIGHTS

### Revenue Leaders

- **Home & Kitchen** holds the highest share (20.46%) despite lower average purchase amount.
- All categories have evenly distributed revenue shares (~19.5–20.5%), indicating balanced contribution.

### Average Purchase Amounts Are Lower Than Medians

- Suggests a presence of lower-value purchases pulling averages down.

# BUSINESS ACTIONS

- **Price Optimization:**

**Electronics & Toys** could explore increasing lower-end price points to lift Q1 values.

- **Bundle & Upsell Strategies:**

For categories with lower averages (Toys, Electronics), introduce bundles to increase per-transaction revenue.

- **Marketing Investment Allocation:**

**Home & Kitchen** already leading in revenue — leverage cross-selling into **Fashion and Books**.

- **Discount Strategy Review:**

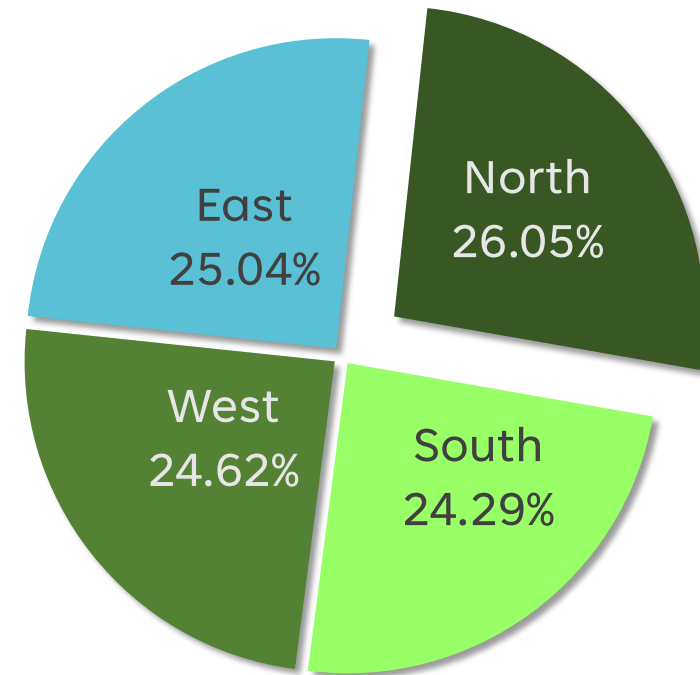
Too many low-value purchases may be due to deep discounts — assess profitability impact.



# CUSTOMER DISTRIBUTION BY REGION

## INSIGHTS

- **North** has the highest customer share (26.05%), slightly ahead of **East** (25.04%).
- **South** (24.29%) and **West** (24.62%) have slightly smaller customer bases, with only ~1.7% gap between highest and lowest.



## BUSINESS ACTIONS

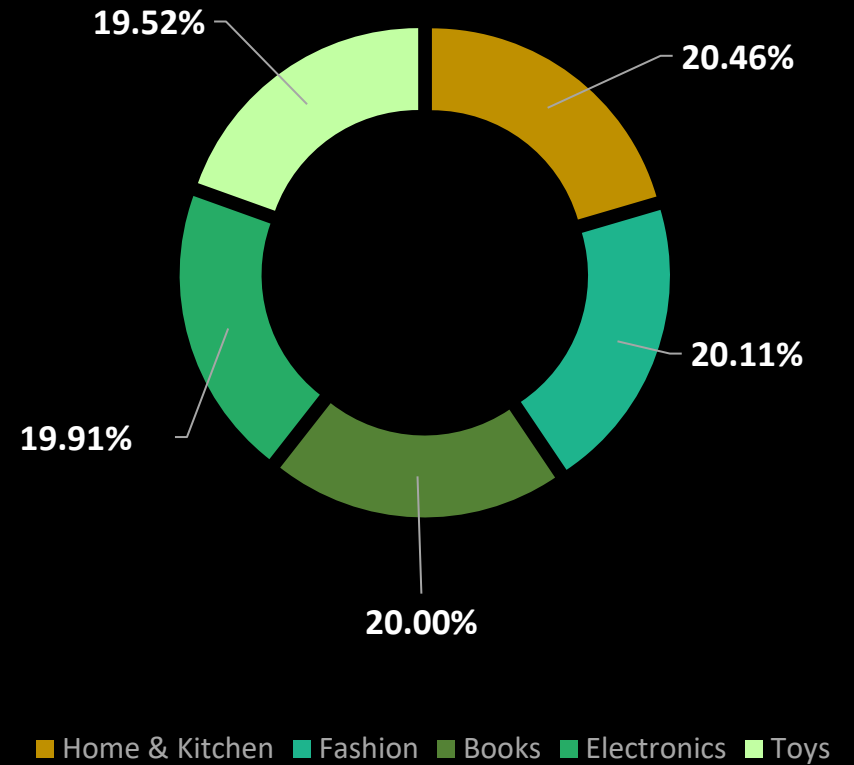
- **North (Leader)** - Maintain strong engagement through loyalty programs and exclusive deals to defend the lead.
- **East (Close Second)** - Launch targeted acquisition campaigns to overtake North's position.
- **South & West (Lagging)** - Boost awareness via localized marketing, partnerships, and regional promotions.



# PRODUCT CATEGORY-WISE REVENUE DISTRIBUTION

# INSIGHTS

- Revenue is quite evenly distributed across all product categories, each contributing ~19–20%.
- Home & Kitchen leads slightly at **20.46%**, followed by Fashion and Books.
- Toys has the lowest share at **19.52%**



# BUSINESS ACTIONS

- **Home & Kitchen:** Introduce premium SKUs or bundle offers to lift the average purchase amount while retaining the high volume.
- **Toys: Run seasonal promotions (e.g., festivals, holidays).**
  - Evaluate product mix - maybe introduce trending or educational toys to increase demand.
- **Fashion & Books:** Since they're mid-level and stable, focus on loyalty programs to maintain repeat purchases.



# GENDER-WISE REGIONAL REVENUE

# INSIGHTS

## By Region

- **North** leads in total revenue (₹1.80M), followed by **East** (₹1.75M).
- **South** and **West** are slightly lower (~₹1.70M each) and have room to improve - total revenue gap is ~₹100k compared to North.

## By gender:

- **Male** customers spend the most in **North**.
- **Other** (gender not mentioned) has high revenue in **East** and **West**.
- **Female** spending is relatively consistent across all regions



# BUSINESS ACTIONS

- **North - Male Focus**

- Push **Home & Kitchen** bundles and **Book promotions** targeting male customers.
- Seasonal campaigns (festive cookware sets, bestseller book offers) could maximize this high-spend male base.

- **East - 'Other' Gender Focus**

- Promote **Electronics & Home & Kitchen** with targeted ads on platforms popular with diverse customer groups.
- Loyalty programs for repeat purchases in these categories.

- **South - Female Focus**

- Strengthen **Books & Home & Kitchen** promotions.
- Host community engagement events (cooking contests, book clubs) to deepen brand connection.

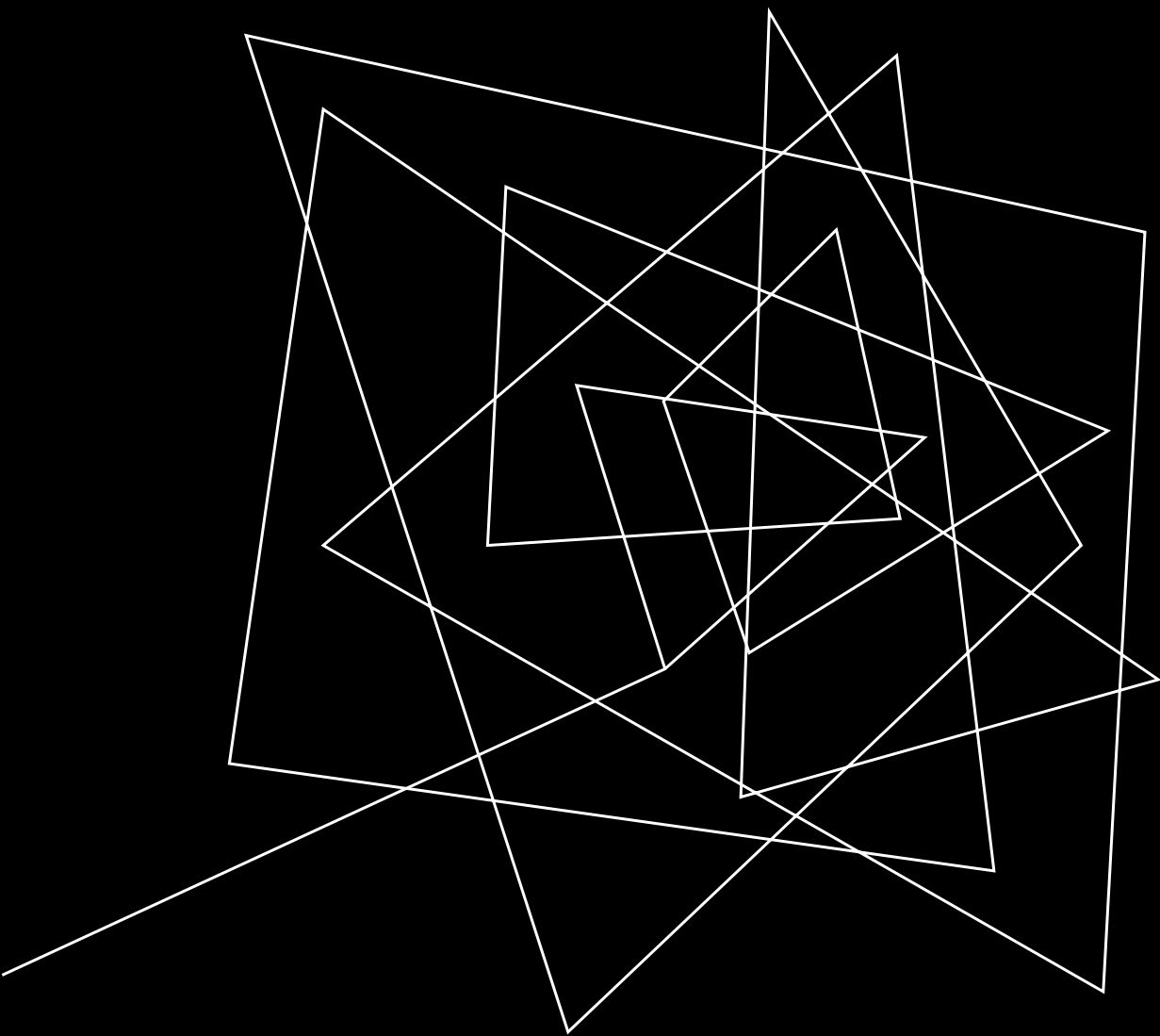
# BUSINESS ACTIONS

- **West – Mixed Strategy**

- Promote **Fashion** and **Electronics** for ‘Other’ gender segment through influencer marketing.
- Improve **Toys** category for males with trend-based toy lines.

- **Cross-region action**

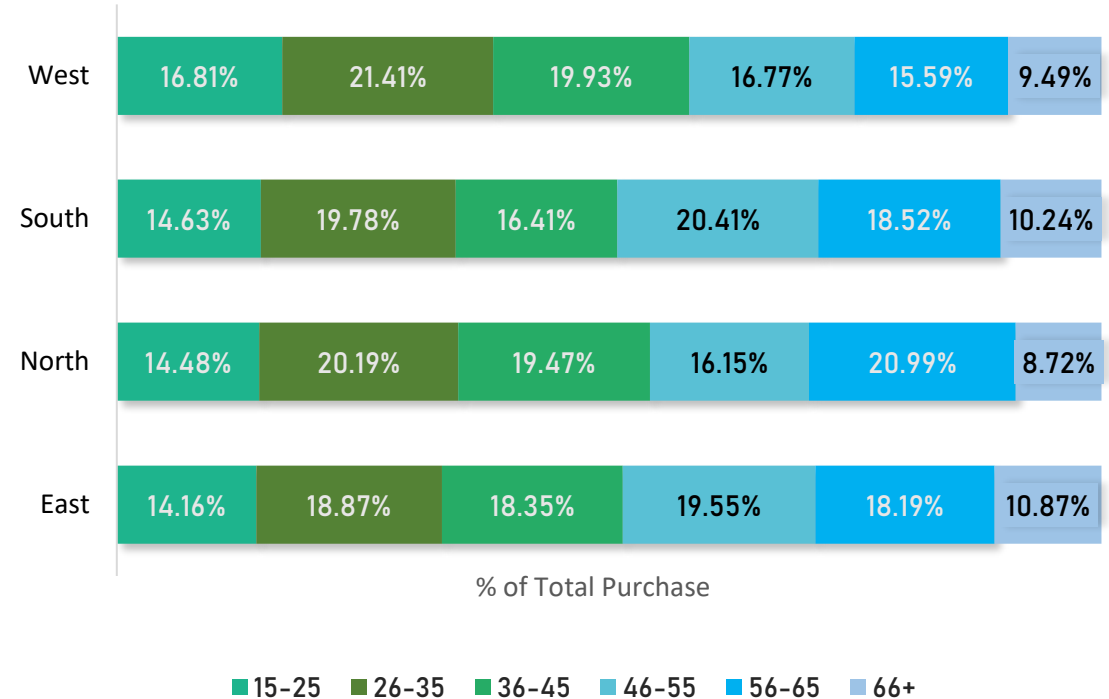
- **Toys category revamp** — especially in South (male) and West (male) segments — through trending product lines, bundling, and seasonal offers.



*AGE WISE PURCHASE  
DISTRIBUTION ACROSS  
REGIONS*

# INSIGHTS

- **West** - Strongest 26–35 (21.41%) & balanced mid-age (36–45 at 19.93%). Weak senior share (66+ at 9.49%).
- **South** – Leads in 46-55 (20.41%) and high 55-65 (18.52%), mature customer base
- **North** – Highest 56-65 share (20.99%), solid 36-45 (19.47%), weak 66+ (8.72%)
- **East** – Even spread across 26-45 & 46-55, above average 66+ (10.87%)
- **All region** – youth (15-25) low, limited penetration

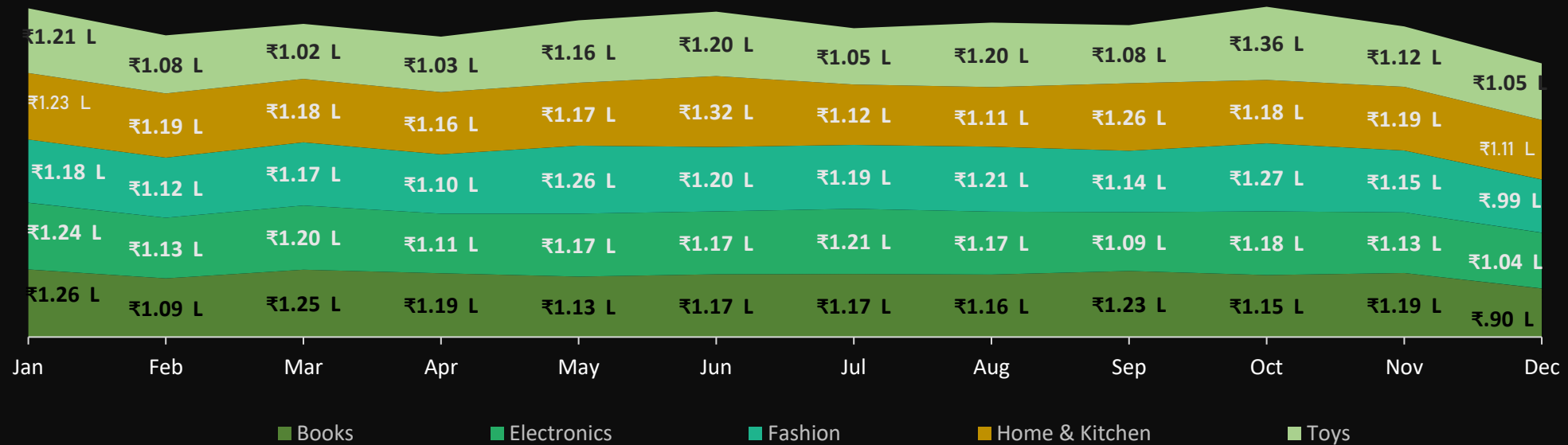


# BUSINESS ACTIONS

- **West** - Focus on 26–35 with tech/lifestyle offers; launch senior engagement.
- **South** - Target mature customers with health, wellness, and premium comfort products.
- **North** - Use loyalty for 56–65; boost 66+ via senior discounts.
- **East** - Maintain balance; run multi-generational bundles.
- **All** - Digital-first youth campaigns to close 15–25 gap.



*PRODUCT CATEGORY-WISE  
MONTHLY REVENUE*

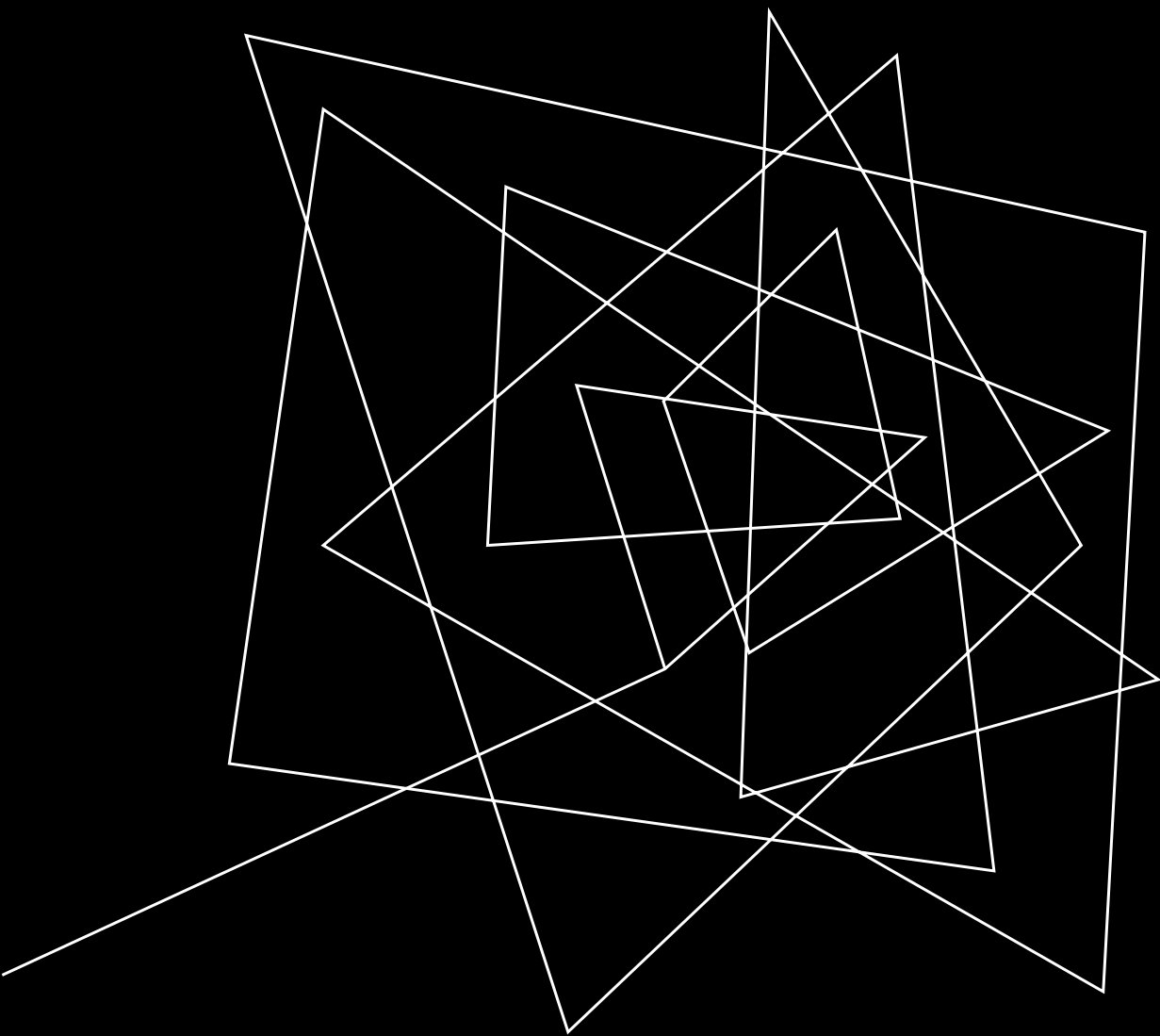


## INSIGHTS

- Consistent Leaders:**  
**Books** maintained steady sales, peaking at ₹1.26L in Jan & strong in Sep–Oct.
- Mid-Year Dip:**  
**Electronics, Fashion, and Home & Kitchen** saw minor declines around Apr–Jul.
- Seasonal Spikes:**  
**Toys** saw the highest jump in Oct (₹1.36L), likely festive-driven.
- End-of-Year Drop:**  
 Most categories experienced declines in Dec,

# BUSINESS ACTIONS

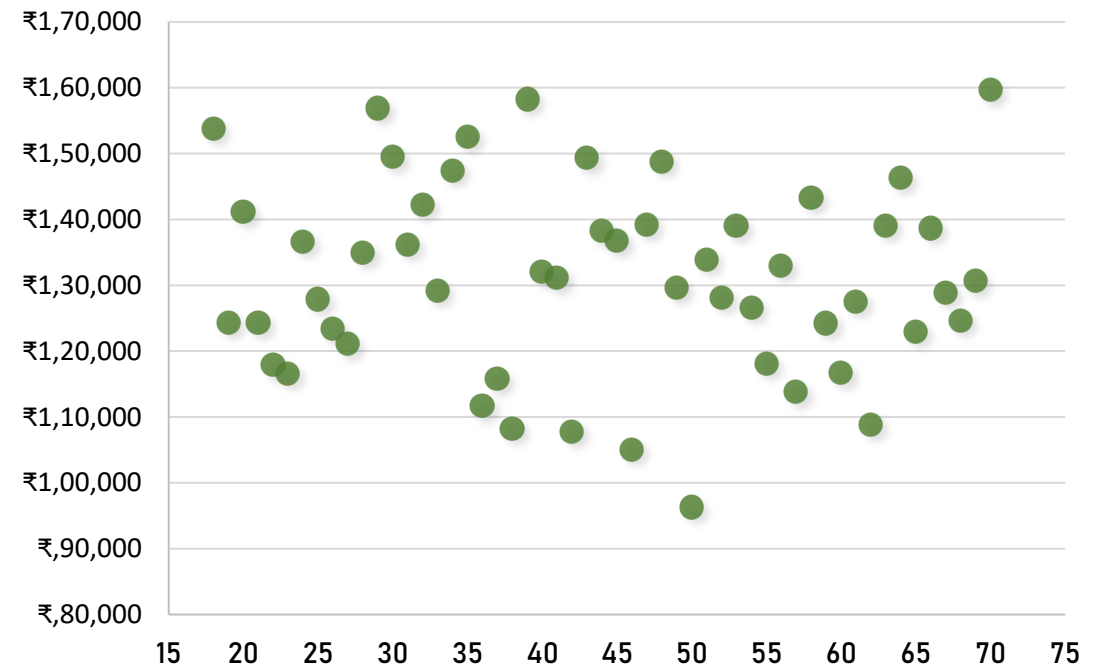
- **Leverage Festive Peaks:** Boost inventory & marketing for **Toys** before Oct to maximize seasonal demand.
- **Stabilize Mid-Year:** Introduce promotions in **Apr–Jul** to offset seasonal dips.
- **Address Year-End Drop:** Plan **December** clearance events or bundles to sustain sales.
- **Cross-Sell Opportunities:** Use **Books** as a traffic driver to upsell related categories.



*AGE - PURCHASE  
AMOUNT RELATIONSHIP*

# INSIGHTS

- **18 years:** Noticeable high purchase margin - likely early-stage adopters or gift-driven spending.
- **30–40 years:** Consistently high purchase amounts - strong earning stage with higher discretionary spend.
- **40–69 years:** Stable but **mid-range spending**; minimal spikes, indicating steady but not premium purchases.
- **50 years:** **Lowest purchase amount** across all ages - possible disengagement or spending constraints.
- **70 years:** **Highest purchase amount** - peak margin spenders, likely due to lifestyle and disposable income.



# BUSINESS ACTIONS

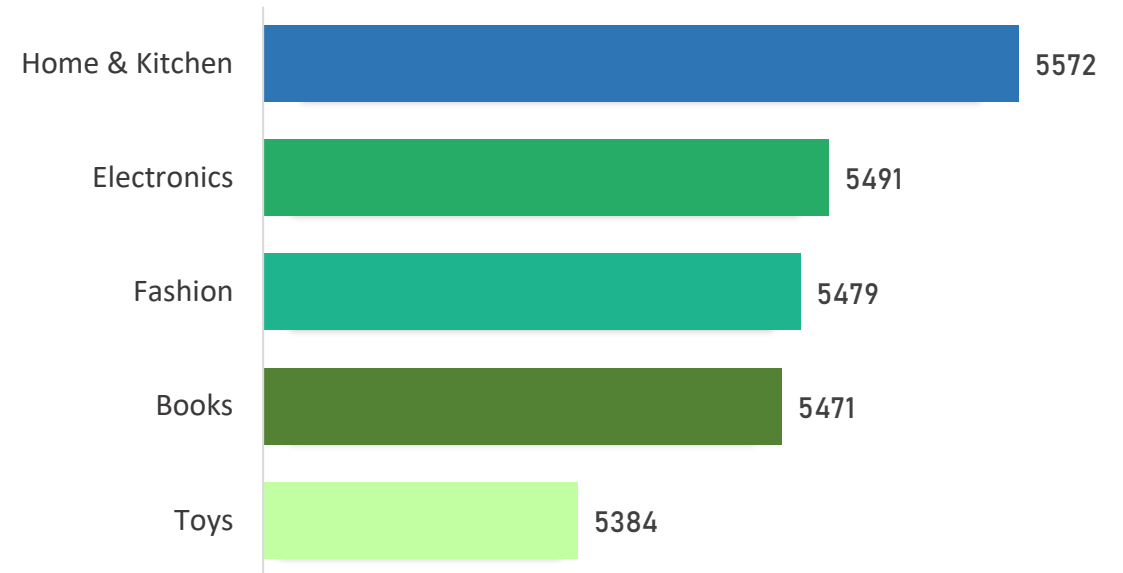
- **Youth-focused campaigns** for 18-year segment - trend-driven offers, influencer marketing.
- **Upsell & cross-sell** for 30–40 segment - premium product bundles, loyalty rewards.
- **Reactivation strategy** for 50-year-olds - targeted offers, re-engagement surveys.
- **Senior premium targeting** for 70+ group - luxury, wellness, travel, and gifting-focused promotions.
- Maintain **steady-value offers** for 40–69 bracket to retain baseline revenue.



## *PRODUCT CATEGORY - WISE PURCHASE COUNT*

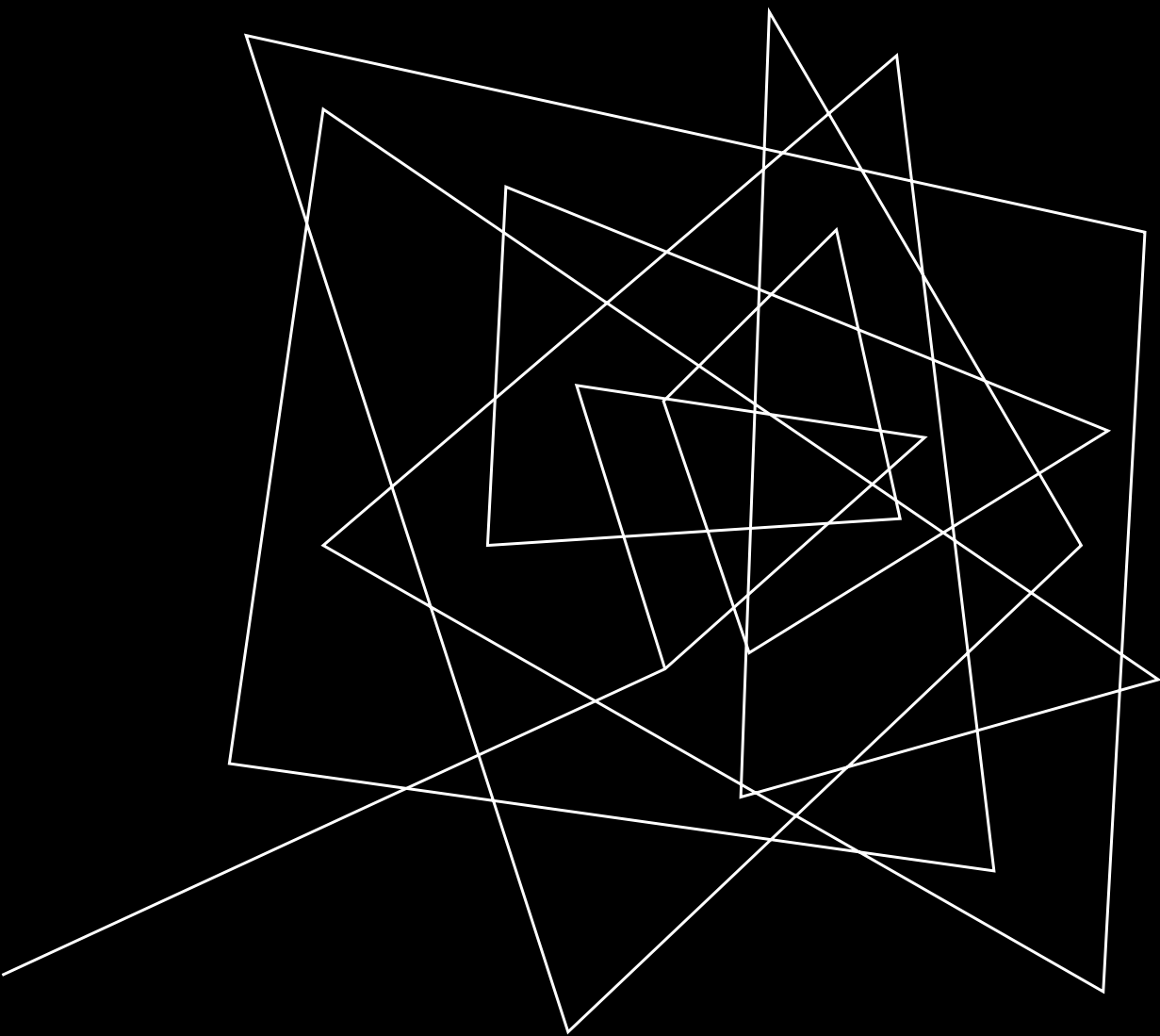
# INSIGHTS

- **Home & Kitchen** leads with **5,572 purchases**, indicating the highest consumer interest.
- **Electronics, Fashion, and Books** are closely competitive with purchase counts in the **5,470–5,490 range**.
- **Toys** has the **lowest purchase count** at **5,384**, though the gap between categories is not very large.
- Purchase volumes are fairly balanced, suggesting a **diverse demand spread across categories**.



# BUSINESS ACTIONS

- **Maintain strong stock** and marketing in *Home & Kitchen* to capitalize on demand.
- Explore **cross-selling** opportunities between Electronics, Fashion, and Books due to similar purchase volumes.
- For **Toys**, consider:
  - ✓ **Promotional offers** or bundles to boost interest.
  - ✓ **Targeted marketing** for parents and gift seasons.
- Continue **broad product variety** to retain balanced demand across categories.



*HOW DIFFERENT AGE  
GROUPS SPEND?*

*HEATMAP ANALYSIS*

# INSIGHTS

- **26–35 years** -> Highest purchases across all ranges, peak at **₹401–500** range.
- **66+ years** -> Lowest purchases in all ranges, sharp drop in **₹0–100** range but **strong second in ₹401–500**, suggesting a preference for **high-margin products**.
- **36–65 years** -> Steady moderate spending, no extreme peaks or dips.
- **15–25 years** -> Active buyers but less likely to make high-value purchases.

Count of	Amount Ranges				
Age Groups	0-100	101-200	201-300	301-400	401-500
15-25	807	852	821	842	811
26-35	1020	1105	1099	1125	1130
36-45	942	1073	933	1099	1017
46-55	981	1007	1039	1002	1001
56-65	948	1041	1028	986	1038
66+	461	555	543	535	556

*Purchase Amount Variation Across Customer Age*

Count of	Amt Rang				
Age Group	0-100	101-200	201-300	301-400	401-500
18-25	807	852	821	842	811
26-35	1020	1105	1099	1125	1130
36-45	942	1073	933	1099	1017
46-55	981	1007	1039	1002	1001
56-65	948	1041	1028	986	1038
66-69	361	439	419	413	416
70	100	116	124	122	140



## BUSINESS ACTIONS

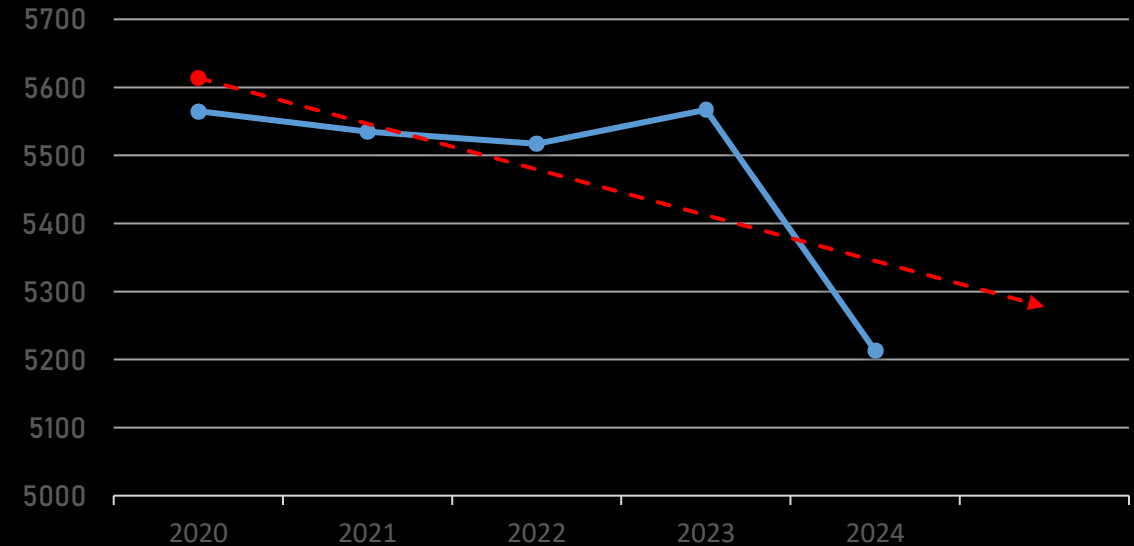
- **Premium targeting** for **26–35** with high-value bundles & loyalty rewards.
- **Upsell campaigns** for **15–25** & **36–45** to move them into higher ranges.
- Position **high-margin offers** to **66+** (luxury, quality-focused products).



# MONTHLY PURCHASE TREND

# INSIGHTS

- **Overall Downward Trend:** Purchases have declined from ~5,560 in 2020 to ~5,220 in 2024.
- **Short-Term Recovery in 2023:** Slight rebound seen in 2023 before a sharp drop in 2024
- **2024 Decline is Significant:** Largest year-over-year drop observed between 2023 and 2024.
- **Q4 2024:** Purchases fell below 1200 — the lowest in the 5-year period.
- **Dec 2024:** The sharp decline in Q4 2024 is **entirely due to December**
- **Only 12 days data is available for December** month showing decline
- **Stable Performance Until Oct 2024:** Jan–Oct 2024 follows a normal range, indicating no gradual deterioration.



**Trendline Impact:** The entire downward bend in the yearly/quarterly trendline is due to this single month's data point.

# BUSINESS ACTIONS

- **Root Cause Analysis: December 2024**
  - Audit operations, campaigns, inventory, customer support, etc., specific to Dec.
  - Cross-check for system errors or supply chain breakdowns.
- **Mitigation Strategy for Future Peaks**
  - Create business continuity plans for high-dependency months.
  - Build redundancy in fulfillment/logistics for Q4 months.

# KEY FINDINGS

**Core customers:** Ages **26–35** (and 36–45) are the revenue backbone across regions — highest purchase counts and strong presence in premium bins.

**High-value microsegment:** **Age 70** is the top spending single-age cohort; category spend for 70s is highest in **Home & Kitchen** and **Fashion**, with strong gift behavior (Books, Toys).

**Mid-life dip:** **~50** shows the lowest purchase amounts — a re-engagement gap.

**Home & Kitchen leads nationally:** highest purchase count and revenue share (~20.5%) — consistent across regions.

**Books > Electronics (per-revenue):** Books generate higher revenue per unit than Electronics even with similar counts → Books have higher ASP.

**Toys trailing in volume:** lowest purchase count overall but strong seasonally (Oct); opportunity for seasonal promotions.

**West:** youngest skew (26–35 dominant) → Fashion & Electronics should be prioritized here (digital channels).

**North:** large customer base + higher older-age share (56–65) → Home & Kitchen and senior-friendly products perform well; loyalty programs will pay.

**East:** balanced but slightly higher senior share → Books, Home & Kitchen and gifting bundles resonate.

**South:** higher 46–55 share → family & comfort product messaging (Home & Kitchen, Fashion family bundles).

**Seasonality:** predictable peaks in **May/Jun** and **Oct** (Toys/Fashion), Dec 2024 appears artificially low (incomplete data) — do not act on Dec without cleaning.

# RECOMMENDATIONS

**Validate and pilot a “70-plus” premium offer** (curated bundles and loyalty perk).

**Re-engage the ~50 age cohort with tailored offers + survey** (diagnose product/price fit and test incentives).

**Raise AOV with smart bundling across categories** (mixed bundles: Books + accessory, Electronics + home add-ons).

**Premiumize Electronics mix** — add high accessories, warranties; reduce heavy discounting on low-margin items.

**Use Home & Kitchen as traffic anchor for cross-sell** (promote higher-margin add-ons at checkout).

**Focus on south region** – Promote Fashion products- High potential to increase revenue

**Seasonal readiness for May/Jun/Oct** — align inventory and marketing for Toys & Fashion (pre-order & bundles).

**Targeted retention & acquisition by region-age mix** (West = digital youth; North = seniors + loyalty; East/South = mid-age family offers).

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THANK YOU