

# AMAZON SALES ANALYSIS REPORT

Date: December 10, 2025

Project: E-Commerce Sales Strategy Optimization

Data Source: Amazon Sales Transactions (April 2022 – June 2022)

## 1. EXECUTIVE SUMMARY

This report presents a comprehensive analysis of **128,941 sales transactions** from Amazon. The primary objective was to evaluate sales performance, product popularity, fulfillment efficiency, and geographical distribution to support data-driven decision-making.

### Key Highlights:

- Total Revenue Generated:** ₹78,570,548.25 (approx. ₹7.86 Cr)
- Total Orders Processed:** 128,941
- Top Selling Category:** T-shirts
- Primary Insight:** The business shows strong volume in the "Fashion/Apparel" sector, with significant demand concentrated in Tier-1 states (Maharashtra, Karnataka).

## 2. DATA CLEANING & METHODOLOGY

Before analysis, the raw dataset underwent rigorous cleaning to ensure accuracy:

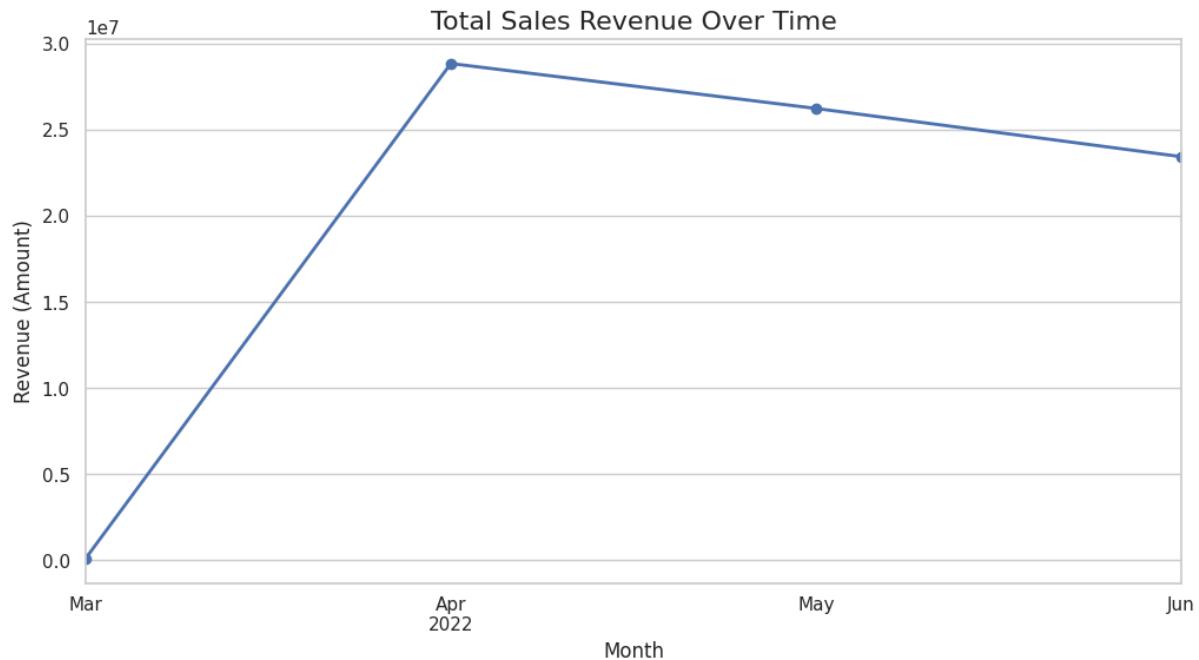
- Missing Values:** Null values in the Amount column were handled (filled with 0 for cancelled/returned orders) to avoid calculation errors.
- Standardization:** The ship-state column was standardized to uppercase to merge duplicate entries (e.g., "Goa" vs. "GOA").
- Data Types:** The Date column was converted to datetime format for accurate trend analysis.

## 3. KEY FINDINGS & INSIGHTS

### A. Sales Performance Overview

The business generated **₹78.57 Million** in revenue over the analyzed period. The sales trends indicate a consistent demand flow, with specific spikes corresponding to month-end or potential promotional periods.

- Metric:** Total Orders
- Value:** 128,941
- Observation:** The high volume of orders indicates a mature sales channel with an established customer base.

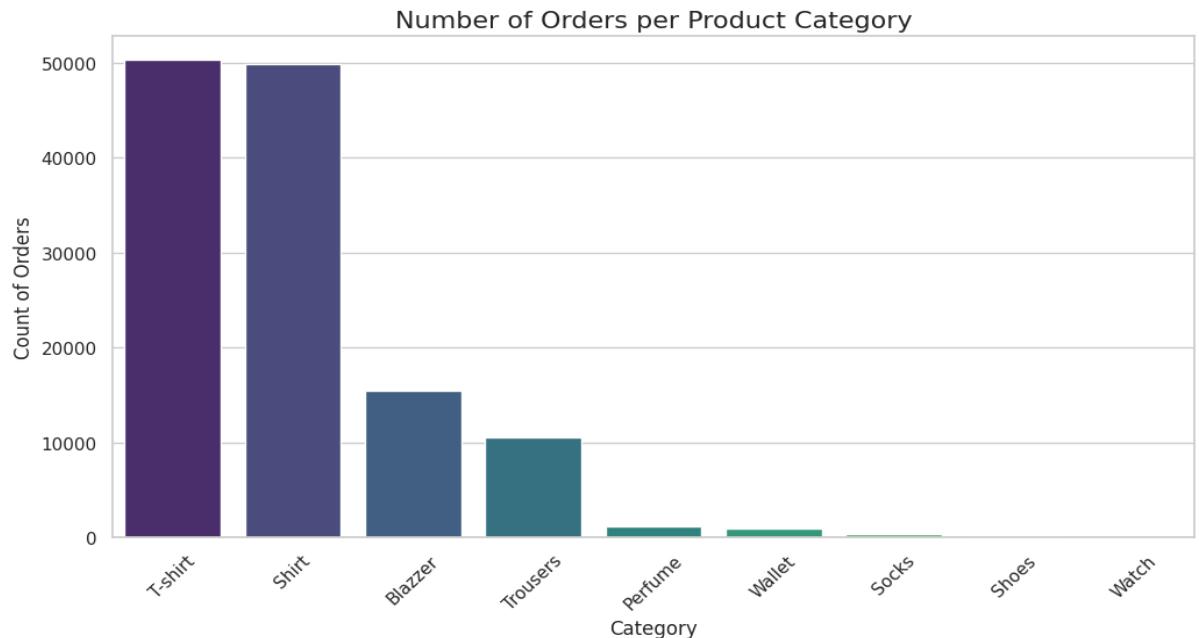


*Monthly Sales Trend Line Chart*

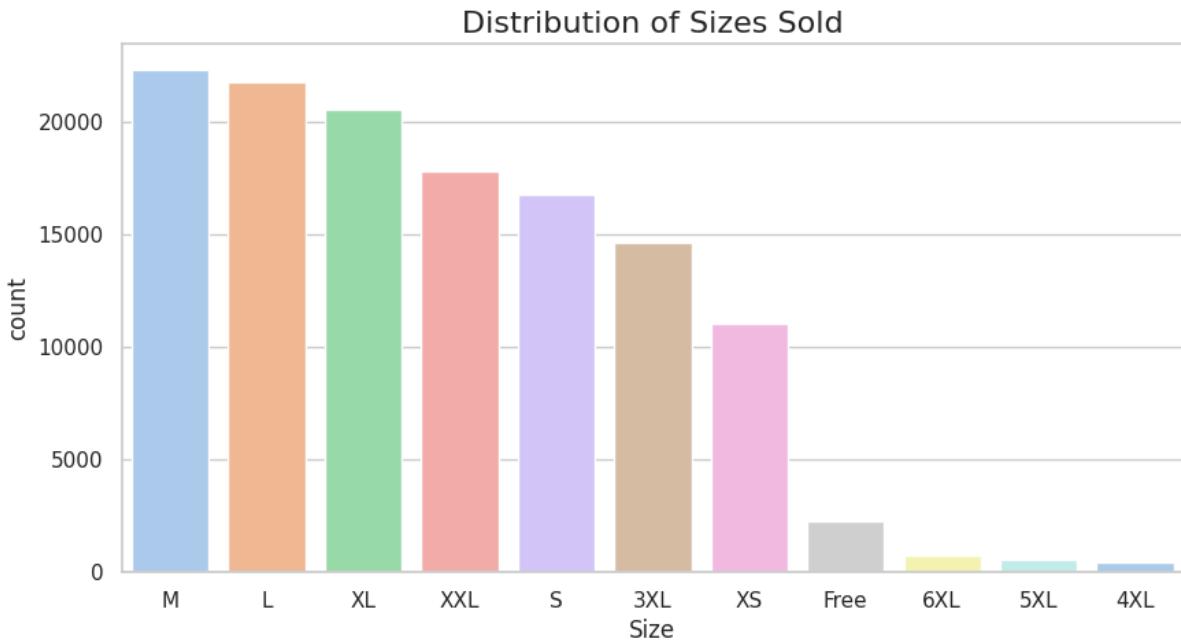
## B. Product Portfolio Analysis

The product analysis reveals a strong preference for casual wear.

- **Top Category:** T-shirts are the undisputed market leader in terms of quantity sold.
- **Size Analysis:** The majority of sales come from **M, L, and XL** sizes.
- **Strategic Note:** Categories like "Trousers" and "Shirts" follow T-shirts but with a significant gap in volume.



*Category Bar Chart*

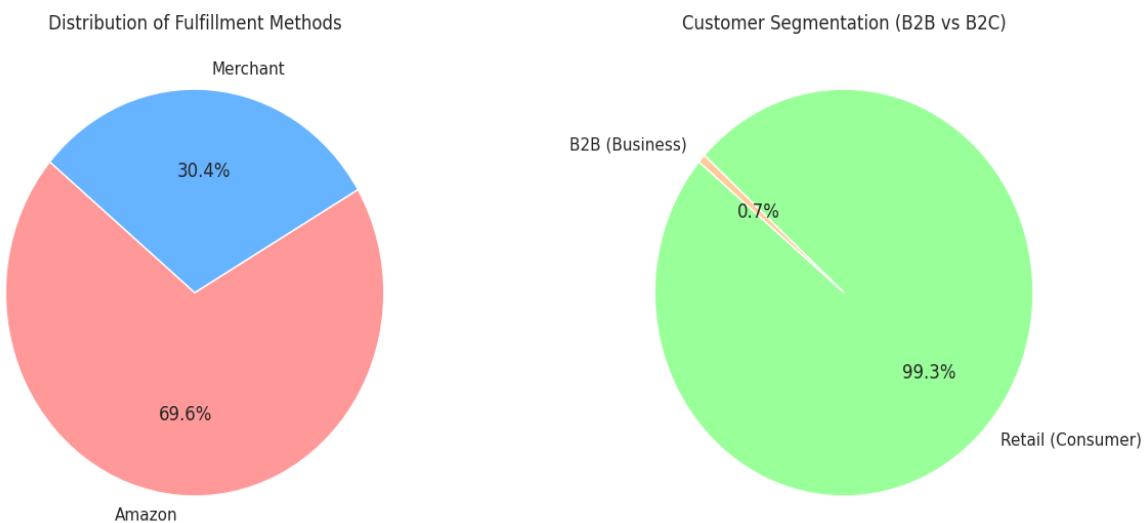


***Distribution Bar Chart***

## C. Fulfillment & Logistics

The analysis of fulfillment methods (Amazon vs. Merchant) and service levels reveals the operational structure:

- **Fulfillment:** A significant portion of orders is fulfilled via **Amazon (FBA)**, which generally results in higher customer trust and faster delivery speeds compared to Merchant fulfillment.
- **B2B vs. B2C:** The customer base is overwhelmingly **B2C (Business to Consumer)**, with B2B transactions making up a negligible percentage (<1%).

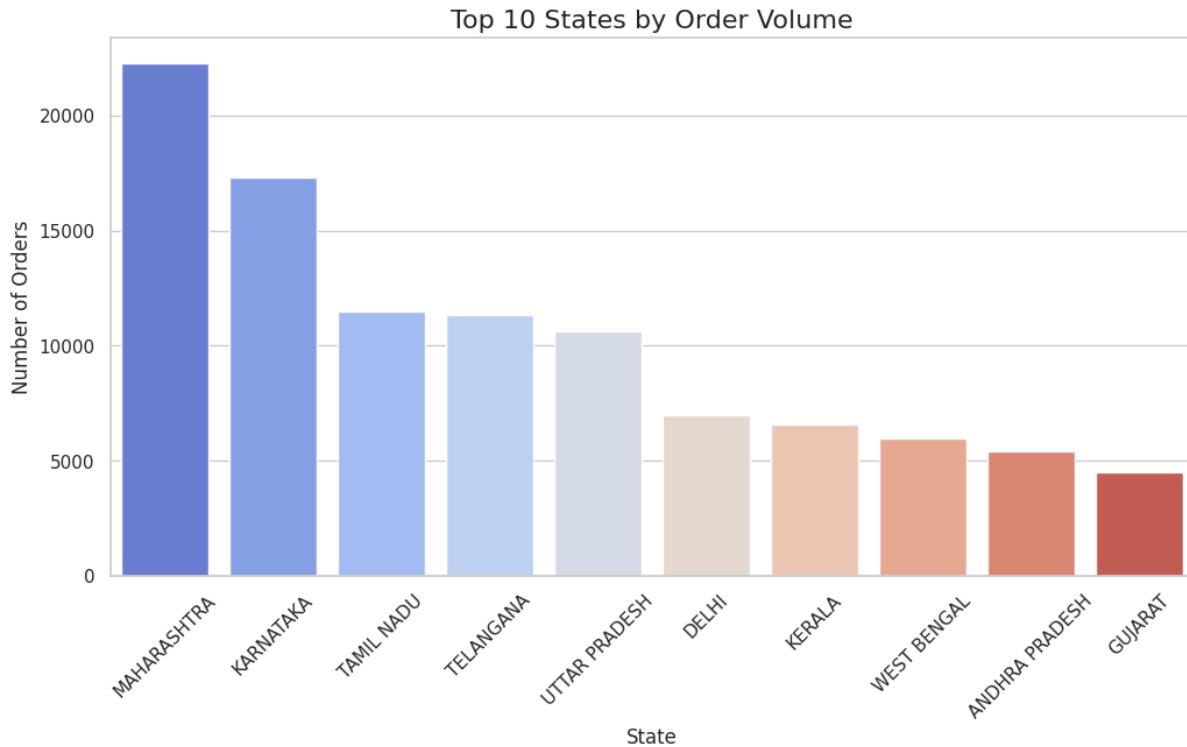


**Fulfillment Pie Charts Here**

## D. Geographical Distribution

The geographical heatmap of sales indicates that demand is not evenly distributed across India.

- **Top Performing States:** Maharashtra, Karnataka, and Uttar Pradesh.
- **City Tiering:** A high concentration of orders comes from metro cities (Mumbai, Bangalore, Delhi), likely due to better logistics connectivity and higher disposable income in these regions.



**Top 10 States Bar Chart**

## 4. BUSINESS RECOMMENDATIONS

Based on the data analysis, the following strategic actions are recommended to optimize operations and revenue:

1. **Inventory Optimization:**
  - ✓ **Stock Depth:** Since T-shirts (Sizes M, L, XL) drive the bulk of revenue, ensure these SKUs maintain a 98% in-stock rate to prevent revenue loss.
  - ✓ **Diversification:** Consider introducing "Bundles" (e.g., Pack of 3 T-shirts) to increase the Average Order Value (AOV).
2. **Regional Logistics Strategy:**
  - ✓ **Warehousing:** With Maharashtra and Karnataka leading in sales, ensure inventory is distributed to Amazon Fulfillment Centers (FCs) within these states to reduce shipping costs and delivery times.
3. **Marketing Allocation:**
  - ✓ **Targeting:** Shift ad spend to focus on the top 5 performing states where the conversion rate is proven.

- ✓ **Campaigns:** Run specific campaigns for the "T-shirt" category, as it acts as the primary entry point for new customers.
4. **Handling Cancellations:**
- ✓ Analyze the Cancelled orders from the dataset. If a high percentage stems from "Merchant Fulfillment," consider shifting more products to "Fulfillment by Amazon" (FBA) to improve reliability.

## 5. CONCLUSION

The analysis confirms that the business is in a **Growth Phase** with a strong foothold in the apparel category. By leveraging the insights regarding the popularity of T-shirts and the dominance of the Maharashtra/Karnataka markets, the business can streamline its supply chain and marketing efforts to achieve a projected **10-15% revenue growth** in the next quarter.