

E-COMMERCE

SALES ANALYSIS

Presented by Mr. Samarth Kadam

COMPANY BACKGROUND

- **Industry Overview:** E-commerce and Online Retail refers to the buying and selling of goods and services over the internet, where businesses and consumers engage in digital transactions through various online platforms.
- **Business Models:** Includes B2C marketplaces, direct-to-consumer online stores, and B2B platforms connecting wholesalers and retailers.
- **Market Growth:** Rapidly expanding with increasing internet penetration, mobile usage, and changing consumer shopping habits.
- **Key Drivers:** Customer experience, logistics efficiency, digital marketing, and data-driven personalization fuel success in this space.
- **Data-Driven Focus:** Companies increasingly use advanced analytics to optimize sales, manage inventory, improve customer targeting, and enhance the overall shopping experience.

PROBLEM STATEMENT

Business Context :

- The e-commerce company is facing multiple operational challenges that hinder growth and customer satisfaction.
- To address these issues, the company is leveraging data-driven insights to optimize operations.
- Analyzing total revenue growth over time and identifying best-selling products and seasonal sales trends.
- Identifying top-performing locations based on sales volume and analyzing order cancellation trends and customer retention.
- Identifying high-demand product categories. Analyzing the average quantity ordered for efficient stock management. Enhancing inventory control to prevent stockouts or overstocking.
- Investigating high return and cancellation rates and identifying problematic products/categories to enhance quality. Improving customer experience through better service policies.

E-COMMERCE BUSINESS PERFORMANCE DASHBOARD

72M

Total Revenue

557

Average Order Value

129K

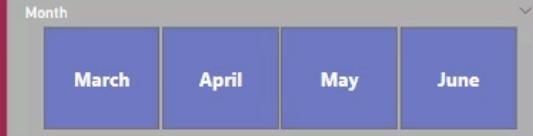
Total Orders

20K

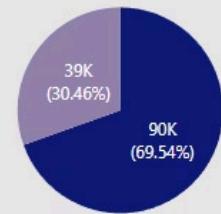
Cancelled Orders

117K

Total Quantity

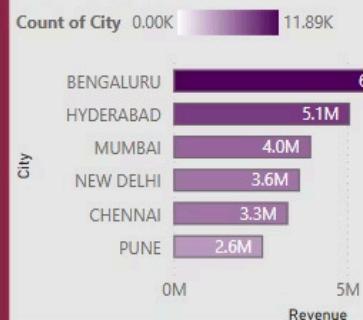


Amazon vs Merchant Fulfilment

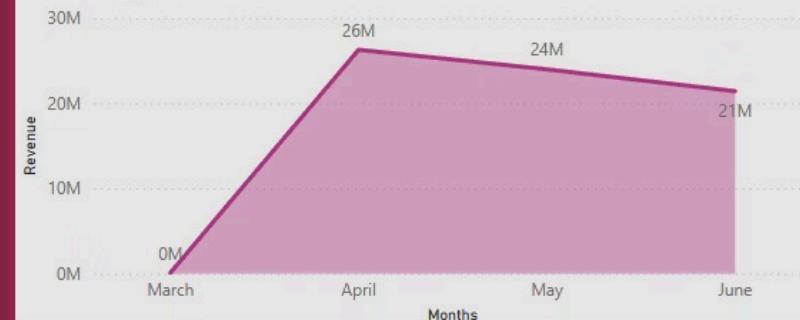


Fulfilment ● Amazon ● Merchant

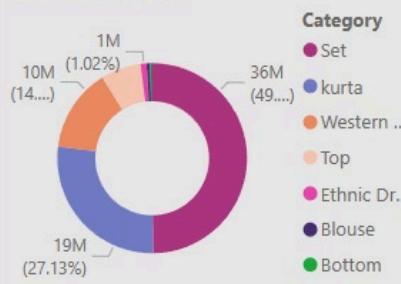
Top City by Sales



Revenue by Month



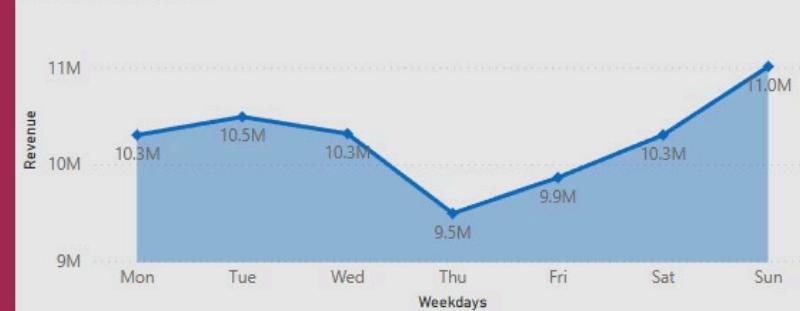
Sales by Category



Cancelled Orders by State



Sales by weekday



KPI'S

- TOTAL SALES REVENUE

Total Revenue: ₹ 71.8 Million

DAX Formula Used:

```
Total_Revenue = SUM(sales_dataset[Amount])
```

- TOTAL ORDERS

Total Orders: 129K

DAX Formula Used:

```
Total_Orders = COUNTA(sales_dataset[Order_ID])
```



- TOTAL CANCELLED ORDERS

Total Cancelled Orders: 20K

DAX Formula Used:

```
Cancelled_Orders =  
CALCULATE(  
COUNTROWS(sales_dataset),  
sales_dataset[Status] IN {  
"Cancelled",  
"Shipped - Rejected by Buyer",  
"Shipped - Returning to Seller",  
"Shipped - Damaged",  
"Shipped - Lost in Transit", "Shipped - Returned to Seller"  
})
```

KPI'S

- TOTAL QUANTITY

Total Quantity Sold: 117K

DAX Formula Used:

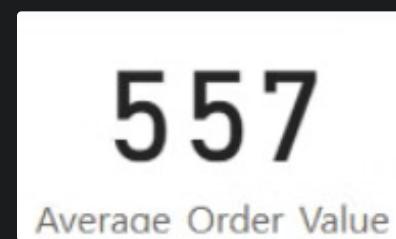
```
Total_Quantity = SUM(sales_dataset[Quantity])
```

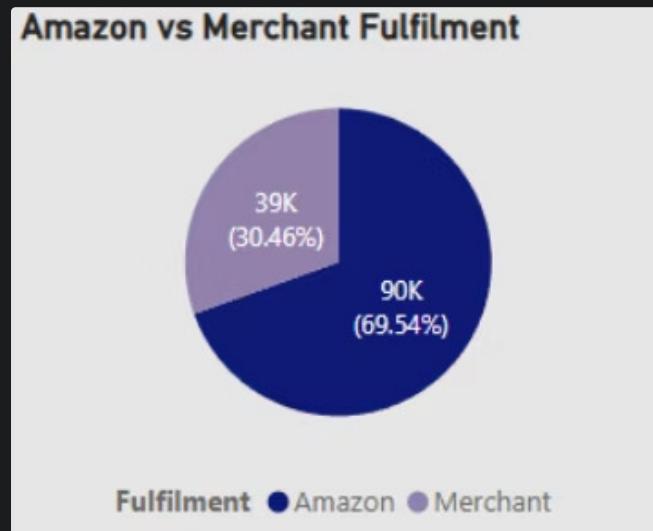
- AVERAGE ORDER VALUE

Average Order Value: ₹ 557

DAX Formula Used:

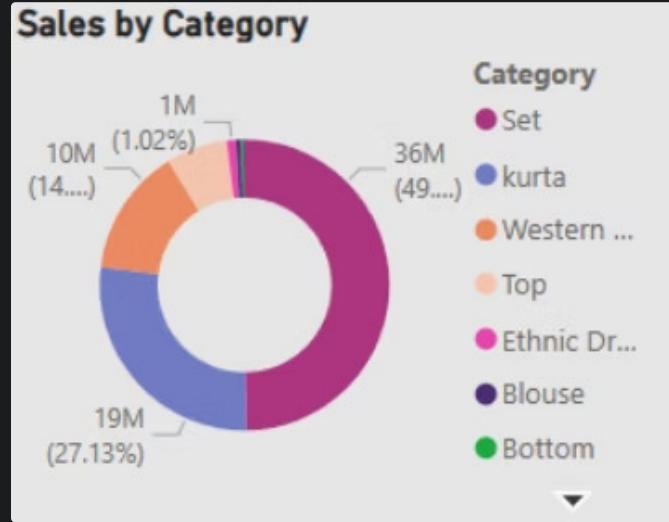
```
Average_Order_Value = DIVIDE([Total_Revenue],[Total_Orders])
```





FULFILMENT AMAZON VS MERCHANT

- Amazon Fulfilment Dominates with 69.54% (90k units) share of Total Orders.
- Merchant Fulfilment Orders share is lower around 30.46% (39k units).
- Key Takeaway: Primary reliance on Amazon's logistics, complemented by substantial Merchant managed operations.



SALES BY CATEGORY

Key Revenue Drivers:

- **"Set" Dominates Sales:** Contributes nearly half (49.0%) of total sales, making it the primary revenue generator.
- **"Kurta" a Strong Second:** Accounts for 27.13% of sales, solidifying its position as a major category.
- **Combined Strength:** "Set" and "Kurta" together drive over 76% of all sales.
- **Western Wear:** A distant third, with other categories having minimal contribution.
- **Actionable Insights:** Focus strategy on maximizing "Set" and "Kurta" categories, while evaluating performance and potential for growth in other segments.

CANCELLED ORDERS BY STATE

Key Areas for Improvement:

- Maharashtra Leads in Cancellations:** Records the highest volume of cancelled orders.
- Karnataka Second Highest:** Follows closely, indicating significant cancellation issues.
- Uttar Pradesh, Telangana, Tamil Nadu and Kerala:** Show moderate to high cancellation rates.
- Actionable Insights:** Focus immediate investigation on Maharashtra and Karnataka to identify and address underlying causes of high cancellation (e.g. logistics, stock issues, customer service).



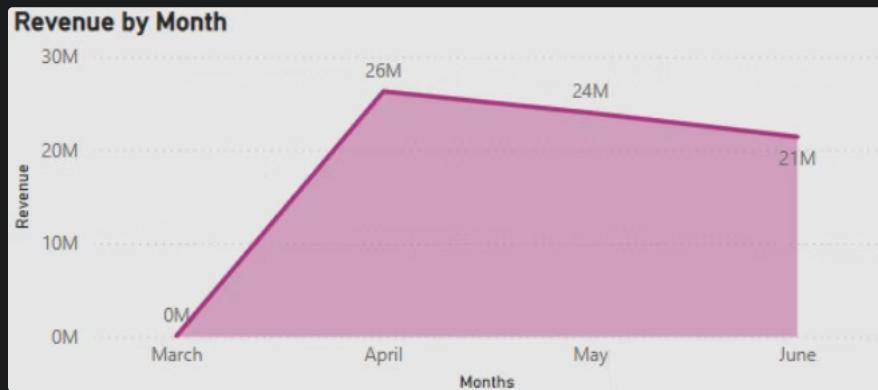
TOP CITY BY SALES

Top City by Sales Performance:

- **Bengaluru Leads Significantly:** Highest sales volume, well above all other cities.
- **Hyderabad a Strong Contributor:** Second in sales, showing strong performance.
- **Key Urban Markets:** Mumbai, New Delhi, and Chennai follow, indicating sales concentration in major metropolitan areas.
- **Actionable Insights:** Focus Marketing/Sales efforts on Bengaluru and Hyderabad, while maintaining presence in other top cities.



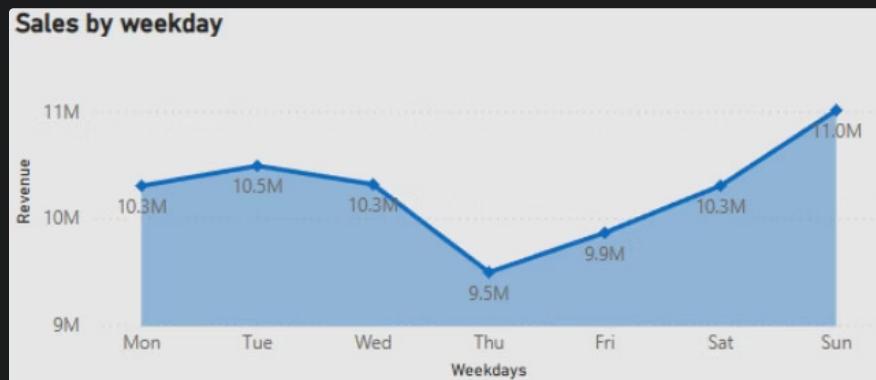
REVENUE BY MONTH



Performance Trends:

- **Significant April Peak:** Revenue surged to its highest point in April, demonstrating strong performance (Exceeding ₹25M).
- **Subsequent Decline:** A clear downward trend observed from May into June, with current revenue in June notably lower than the April peak but still above ₹20M.
- **Key Insights:** This pattern indicates a potential seasonal high in April or a short-term boost. The post-April decline necessitates investigation into market conditions, Sales strategies, or external factors to reverse the trend.

SALES BY WEEKDAY



Performance Patterns:

- **Strong Weekend Performance:** Sunday is the highest sales day (₹11.0M), with Saturday also strong (₹10.3M).
- **Consistent early week sales:** Monday, Tuesday and Wednesday maintain solid sales above ₹10M.
- **Mid-week Dip:** Thursday records the lowest sales at ₹9.5M, indicating a dip in activity.
- **Actionable Insights:** Optimize staffing and marketing efforts for peak weekend demand. Consider promotions or targeted campaigns to boost sales on Thursdays.

E-COMMERCE PERFORMANCE

STRENGTHS & DRIVERS

Solid Revenue & Dominant Channel

- **Overall Performance:** ₹71.8M Revenue, 129K Orders, Average Order Value of ₹557.
- **Fulfilment Power:** Amazon handles 69.54% of Fulfilment.
- **Key Markets:** Bengaluru and Hyderabad lead in Sales.
- **Sales Peaks:** April was the highest revenue month, Sunday is the strongest sales day.

CHALLENGES & ACTIONS

Focus Ares for Growth & Efficiency:

- **High Cancellations:** 20K cancelled orders, especially in Maharashtra & Karnataka.
- **Revenue Decline:** Revenue trending down since April peak.
- **Sales Dip:** Thursday is the weakest sales day.
- **Category Concentration:** "Set" & "Kurta" drive over 76% of sales, others are minimal.

Recommendations & Conclusion

Recommendations:

- **Reduce Cancellations:** Improve order confirmation and delivery processes in Maharashtra & Karnataka through better communication and logistics partner coordination.
- **Diversify Product Categories:** Promote underperforming categories with targeted marketing and bundling to reduce overreliance on "Set" & "Kurta."
- **Boost Off-Peak Sales:** Launch special Thursday promotions and loyalty incentives to smooth weekday demand dips.
- **Sustain Growth Post-Peak:** Plan marketing campaigns and inventory strategies to address post-April decline and maintain steady revenue.
- **Strengthen High-Potential Markets:** Invest in local advertising and improved delivery service in Bengaluru and Hyderabad to consolidate leadership.

Conclusion:

- The analysis highlights strong sales foundations with solid revenue, high average order value, and dominant Amazon fulfilment support.
- Key markets and peak sales periods offer clear opportunities for focused growth strategies.
- Challenges such as high cancellations, uneven sales days, and category concentration need targeted solutions.
- Implementing these recommendations can reduce operational inefficiencies, expand customer base, and drive sustained revenue growth.
- Data-driven decision-making will be critical to remain competitive and improve overall e-commerce performance.

THANK YOU

<https://www.linkedin.com/in/samarth-kadam-17b96a235>

<https://github.com/samarth00017>