

# 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

Month

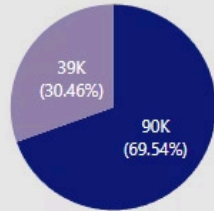
March

April

May

June

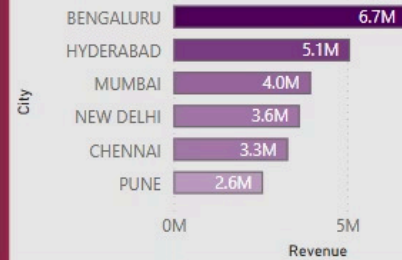
## Amazon vs Merchant Fulfilment



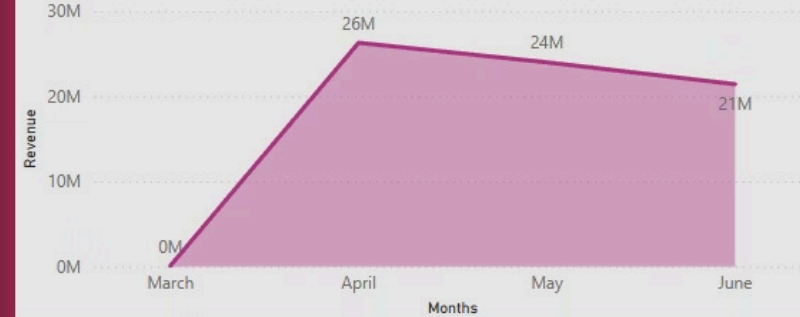
Fulfilment ● Amazon ● Merchant

## Top City by Sales

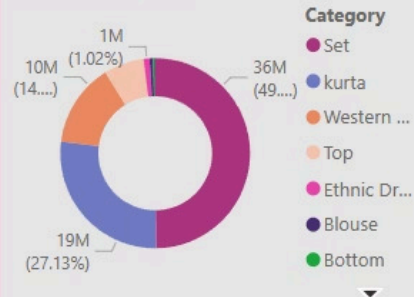
Count of City 0.00K 11.89K



## Revenue by Month

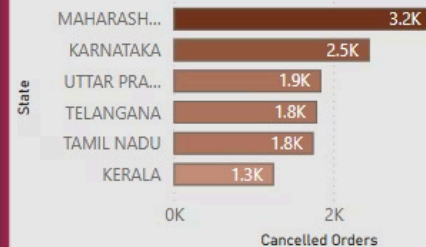


## Sales by Category

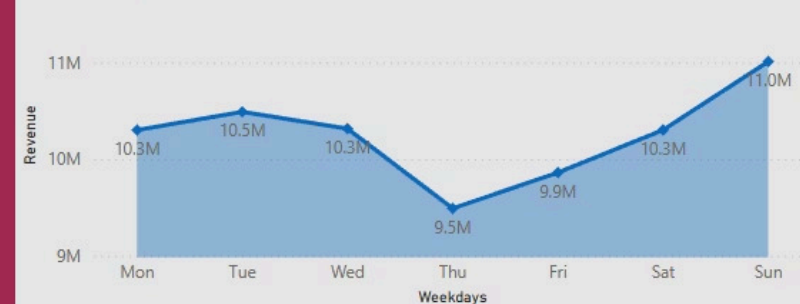


## Cancelled Orders by State

Cancelled\_Orders 0K 3.24K



## 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])
```

72M

Total Revenue

129K

Total Orders

20K

Cancelled Orders

- 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])
```

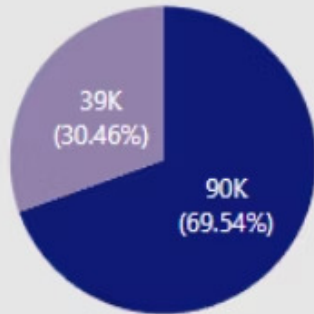
117K

Total Quantity

557

Average Order Value

Amazon vs Merchant Fulfilment



Fulfilment ● Amazon ● Merchant

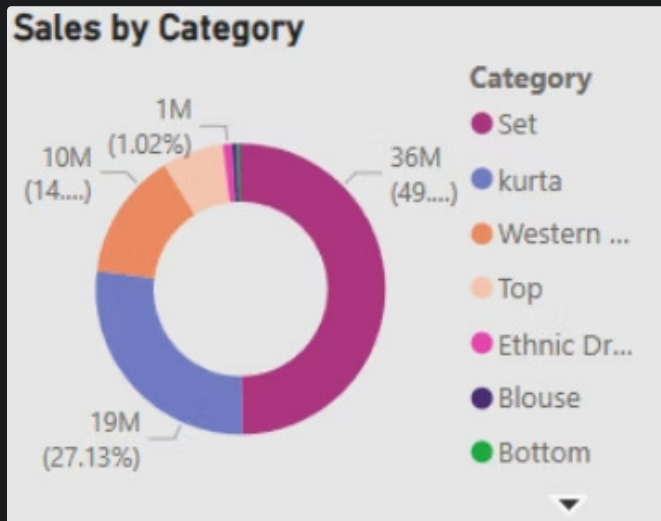
# FULFILMENT AMAZON VS MERCHANT

- 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).



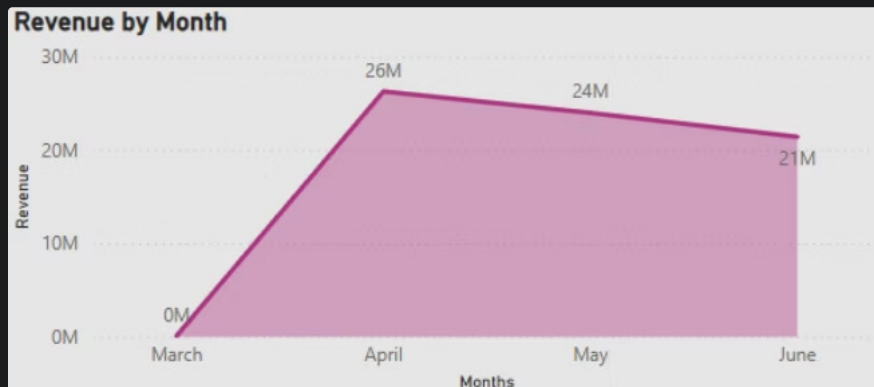
# TOP CITY BY SALES

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 Areas 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

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