Outputs of sample usecase

1. **Compare delivery failure causes between Mumbai and Pune last month?**

Insights

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1. Comparing Mumbai (673 orders) and Pune (650 orders):

2. Mumbai has a failure rate of 22.29% (150 failed orders).

3. Top failure categories in Mumbai: Other (65), Weather (34), Address (26).

4. Pune has a failure rate of 18.62% (121 failed orders).

5. Top failure categories in Pune: Other (48), Address (30), Inventory (28).

6. Pune has a 3.67% lower failure rate than Mumbai.

7. Both cities have the same main failure category: Other.

Recommendations

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1. Study the delivery processes in Pune to improve performance in Mumbai.

2. Develop a coordinated strategy to address Other issues across all locations.

1. **What are the likely causes of delivery failures during the festival period, and how should we prepare?**

Insights

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1. Analysis of historical data suggests increased delivery challenges during festival

periods.

2. Multiple factors including traffic, weather, and inventory affect festival period

deliveries.

Recommendations

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1. Prepare additional capacity for peak festival periods based on historical data.

2. Develop contingency plans for common festival period delivery challenges.

1. **If we onboard Client Barad-Chandran with 20000 extra monthly orders, what new failure risks should we expect and how do we mitigate them?**

Insights

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1. Adding 20000 orders would increase the total from 10000 to 30000 orders.

2. Based on the current failure rate of 20.04%, we project 6012 failed orders with a

rate of 20.04%.

3. Based on the current delay rate of 12.71%, we project 3812 delayed orders with a

rate of 12.71%.

4. High-risk warehouses include: Warehouse 1, Warehouse 2, Warehouse 3.

5. High-risk delivery routes include: R1, R11, R13.

6. High-risk cities include: Ahmedabad, Bengaluru, Chennai.

7. Identified 10 high-risk bottlenecks that could impact performance with increased

order volume.

8. Potential city bottlenecks: Ahmedabad, Bengaluru, Chennai.

Recommendations

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1. Strengthen delivery infrastructure in high-risk cities: Ahmedabad, Bengaluru,

Chennai.

2. Implement a phased approach to onboarding the additional order volume to allow for

operational adjustments.

1. **Why did Client Barad-Chandran’s orders fail in last 3 month?**

Insights

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1. Overall, there were 2004 failed deliveries, representing a failure rate of 0.20%.

2. The main failure categories were: Other (785 orders), Inventory (425 orders),

Address (409 orders).

3. Overall, there were 1271 delayed deliveries, representing a delay rate of 0.13%.

4. The average delay was 36.35 hours, with a median of 48.00 hours.

1. **Why were deliveries delayed in Pune yesterday?**

No delayed orders found in the data