

Delivery Logistics Dataset — Data Analysis Report (Beginner Friendly)

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1. Overview of the Dataset

The dataset contains 25,000 delivery records with information about delivery partner, package type, vehicle type, delivery mode, region, weather, distance, weight, cost, and rating.

2. Data Quality Check

- No missing values
- No duplicates
- Correct data types
- No inconsistent categories
- Normal numeric ranges

3. Categorical Insights

- Most deliveries handled by Delhivery, Xpressbees, DHL, and Blue Dart.
- Vans and trucks are the most used vehicles.
- Same-day delivery is the most common.
- Delivery regions are evenly distributed.
- Weather includes clear, rainy, and cold conditions.

4. Numerical Insights

- Average distance: ~170 km
- Package weight: ~25–50 kg
- Average rating: 3.6/5
- Delivery cost: ~865 units

5. Correlation Insights

- Distance strongly increases delivery cost.
- Weight also increases delivery cost.
- Rating does not depend on distance, weight, or cost.

6. Recommendations

- Optimize long-distance routes.
- Offer discounts for heavy packages.
- Improve service quality to boost ratings.
- Strengthen rainy-weather operations.

7. Summary

The dataset is clean and shows that distance and weight are the strongest drivers of delivery cost.

Same-day delivery is popular, vans dominate logistics, and ratings depend on service quality.