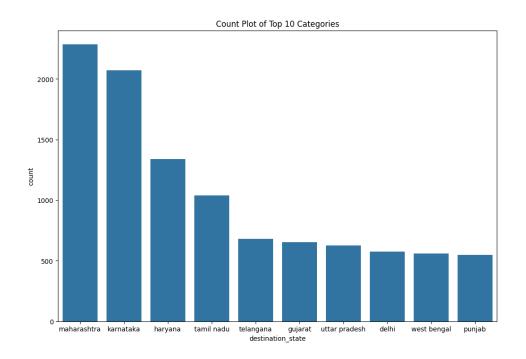
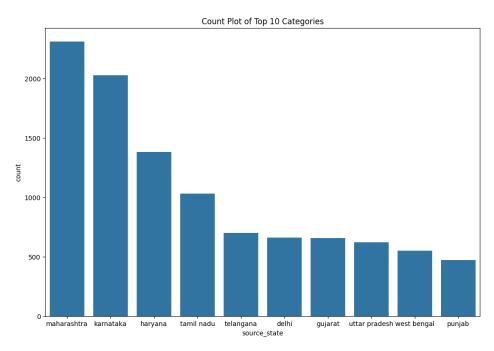
Problem Statement

- Provide data to build the operating system for commerce, through a combination of world-class infrastructure, logistics operations of the highest quality, and cutting-edge engineering and technology capabilities.
- To understand and process the data coming out of data engineering pipelines.
- Clean, sanitize and manipulate data to get useful features out of raw fields.
- Make sense out of the raw data and help the data science team to build forecasting models on it.

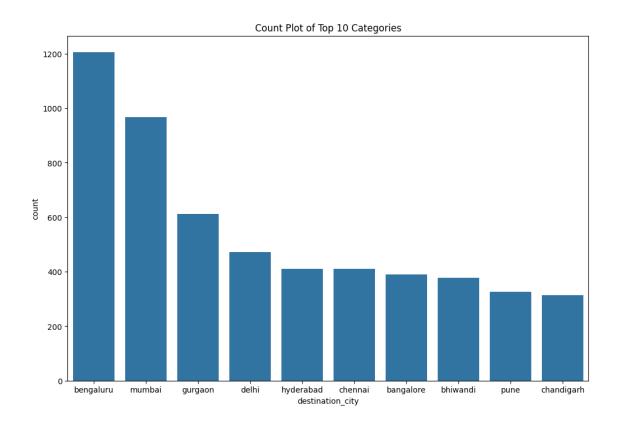
Business Insights & Recommendations

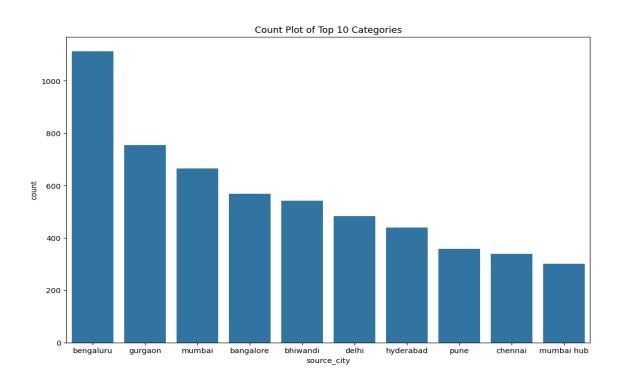
1. Maharastra seems to be the most active Source and Delivery State in India, below attached the top Source and Destination State in India:





2. Bengaluru seems to be the most active Source and Delivery City in India, below attached the top Source and Destination City in India:





3. Route Type: 8817 are Carting-1 and 33942 are of FTL -0 type.

route_type 1 8817 0 3942

Name: count, dtype: int64

4. Busiest Route:

Lowerparel is the busiest source city and Mumbai being the busiest destination city

5. Average Time and Distance:

Average delivery time seems to be 42.67289719626168 hr, Average distance seems to be 13.179664875398535 km

Recommendation:

- 1. Carting route type seems to have a lot more data as compare to FTL, so while building the ML model we have to consider the biasness in data.
- 2. Bengaluru seems to be our prime city and any updates in functional operations should be done considering the location.
- 3. After performing Hypothesis Testing, there is no significant difference and hence we can say that out model is predicting the output correctly for below mentioned parameters.
 - a) Actual time aggregated value Vs OSRM time aggregated value.
 - b) Actual time aggregated value Vs Segment actual time aggregated value.
 - c) OSRM distance aggregated value Vs Segment OSRM distance aggregated value.
 - d) OSRM time aggregated value Vs Segment OSRM time aggregated value.

