# Rapido Project

Analysis Report:
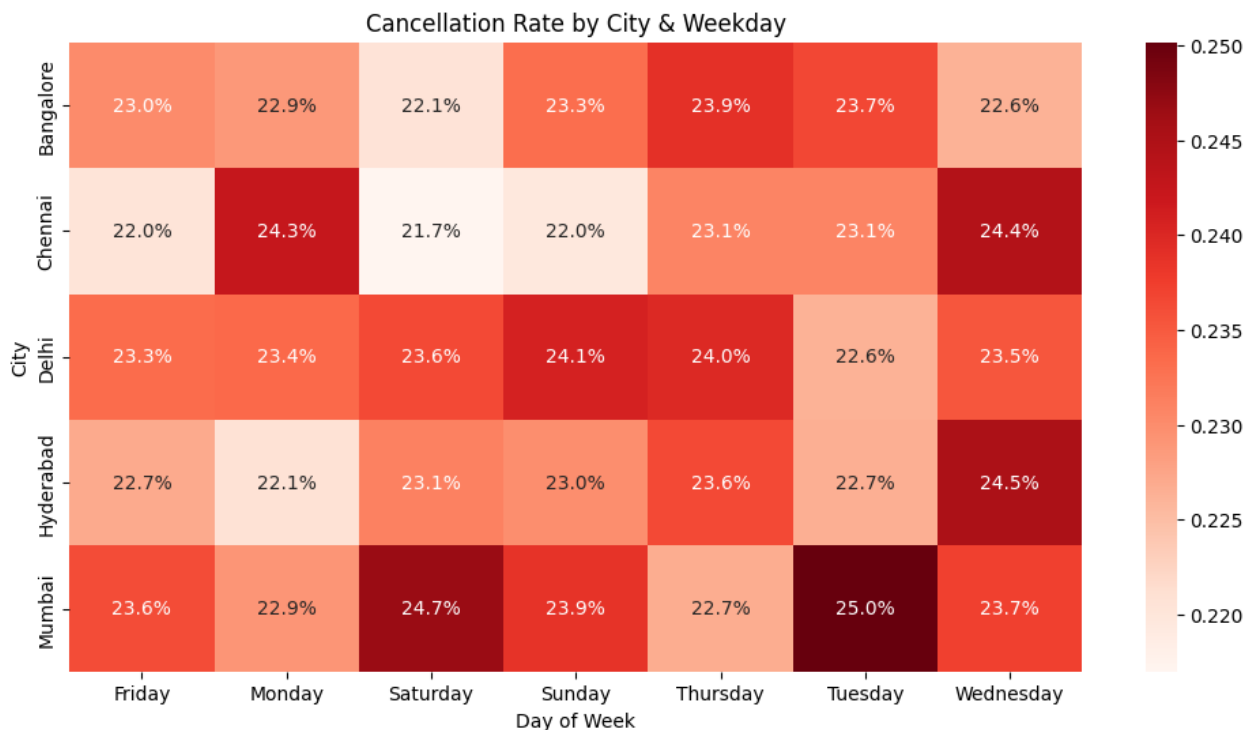

Ride Volume by hour , week and city:

1. Ride volume is at peak on the 5,13,15th hours of the day, low at 8,9,10,17,19,20 hours.
2. Ride volume is high on Wednesday, Friday and the least on Monday,Tuesday
3. Ride volume is roughly the same across all the major cities (Mumbai, Chennai, Delhi, Hyderabad and Bangalore)
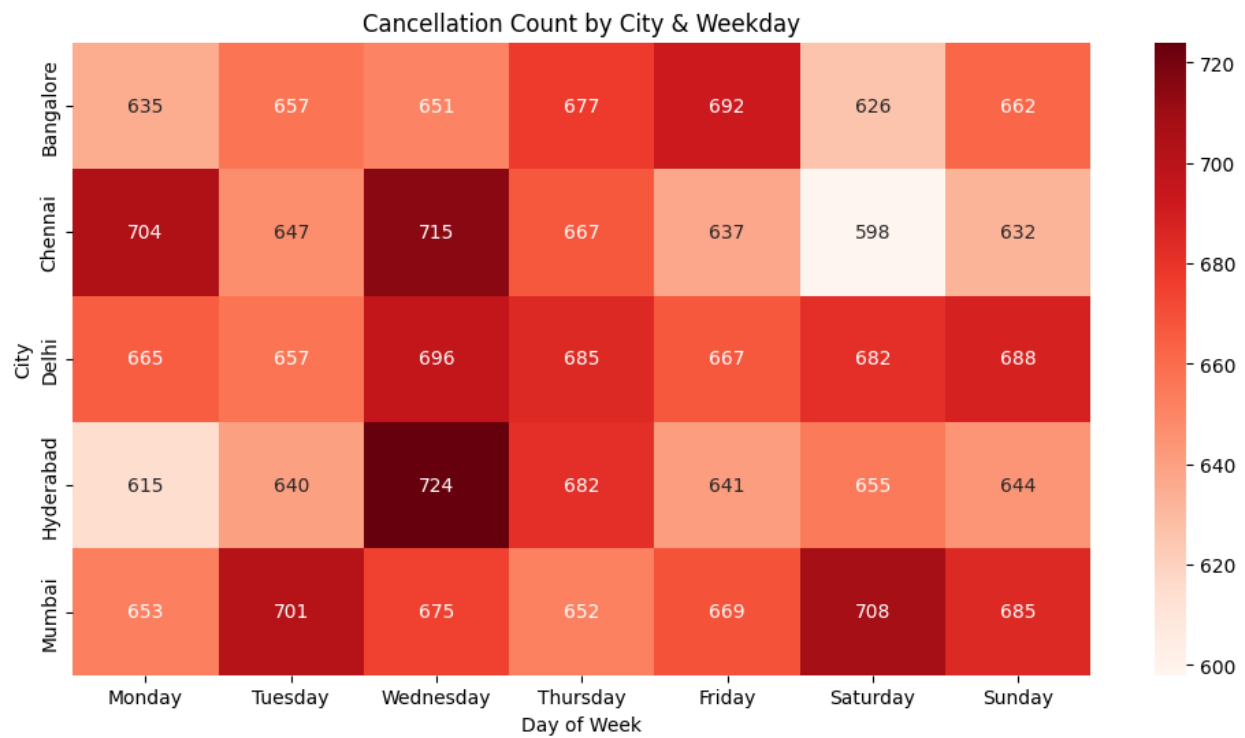

Ride Volume by Hour of Day

Ride Volume by Day of Week

Ride Volume by City
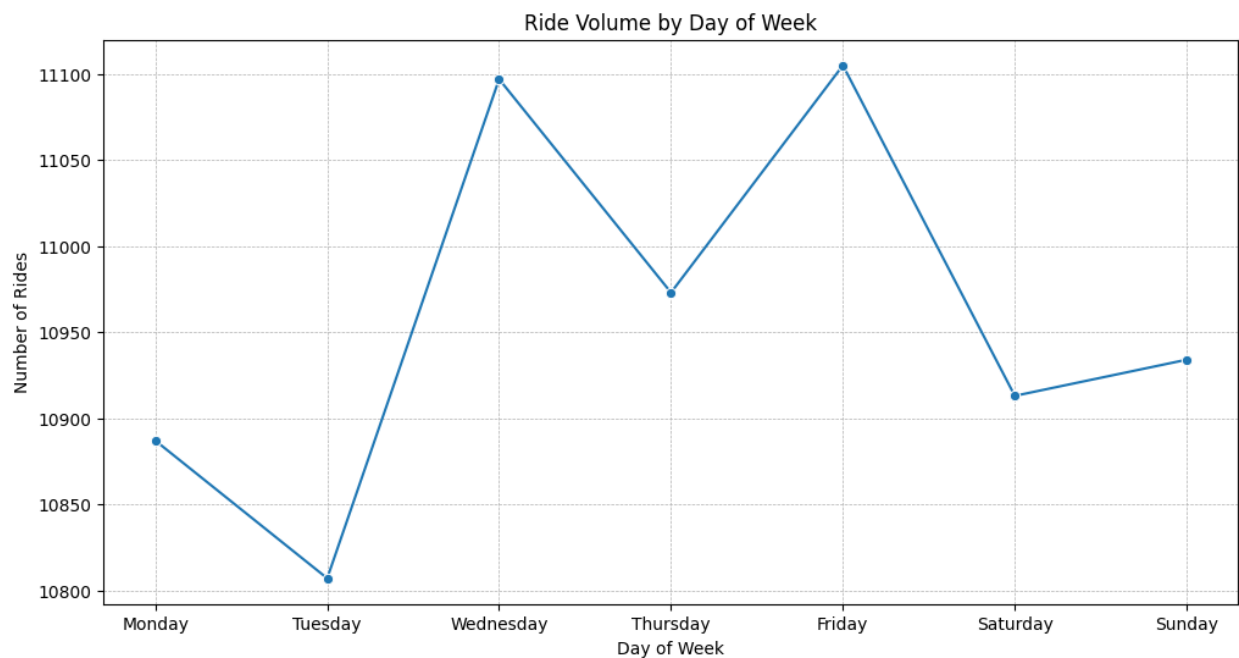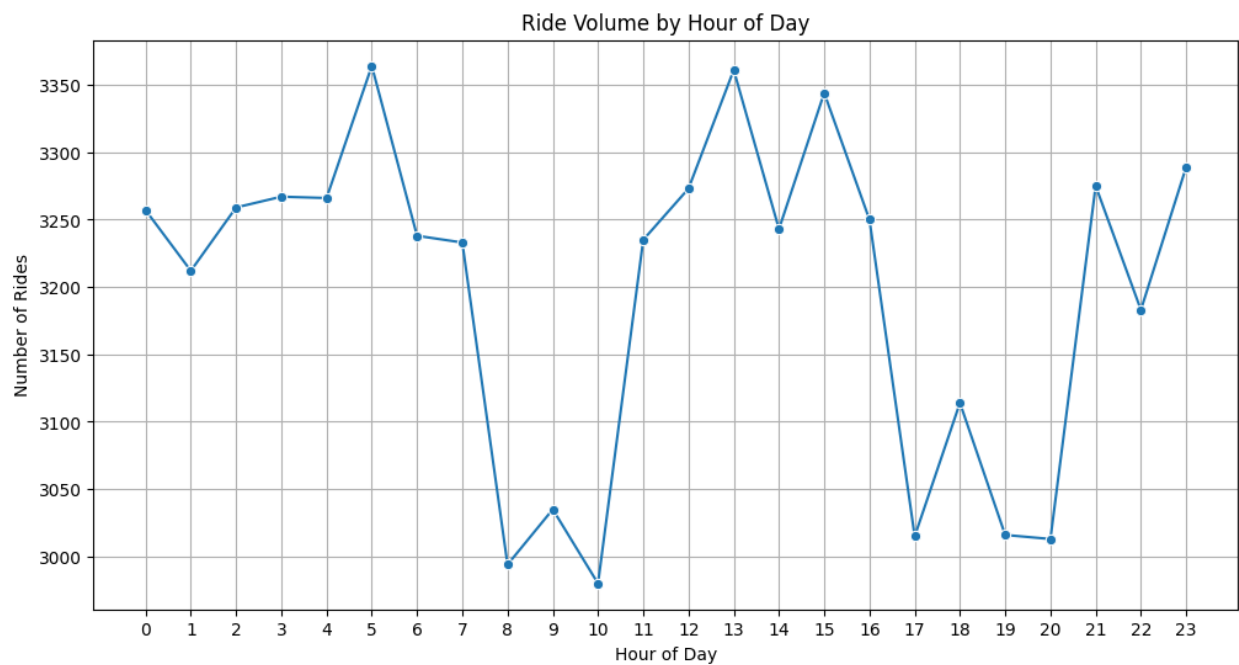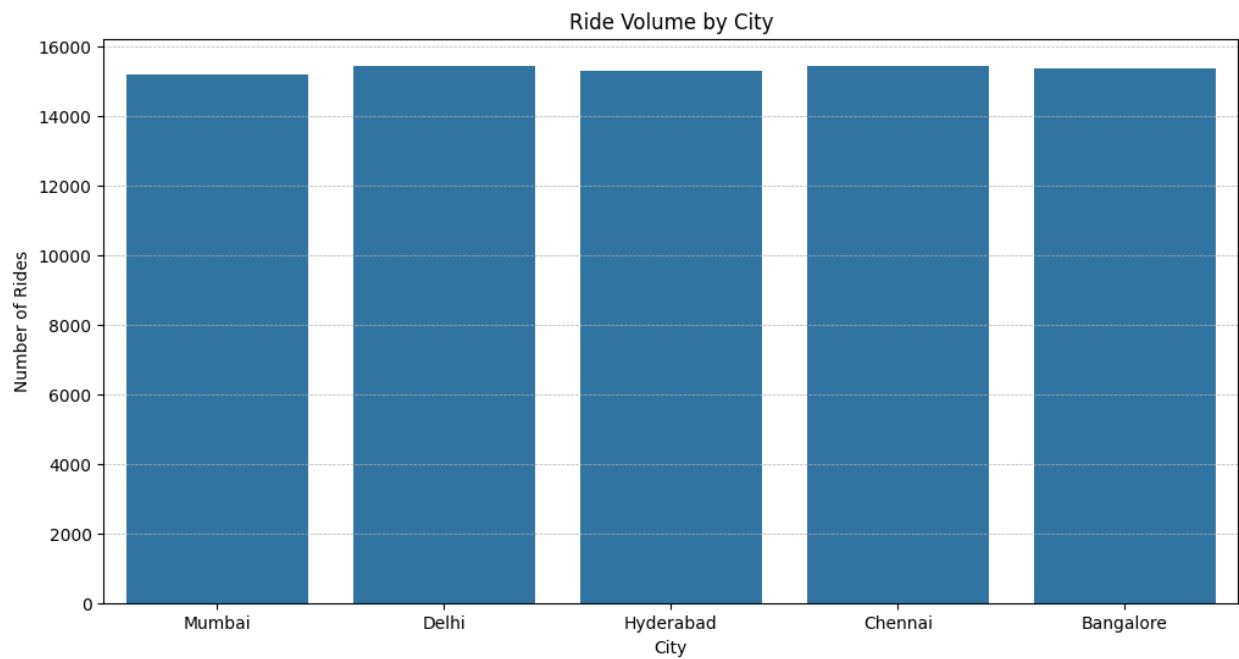

Cancellation Heat Map across cities

1. Mumbai has the highest cancellation rate at 25% on Tuesdays, among all days and cities.
2. Cancellation count is highest on Wednesday at Hyderabad, although the rate is 24.4% slightly lower than the highest.
3. Looking from the heatmap, Mumbai and Delhi seems to have high cancellation rates compared to other cities.
4. Chennai has lower cancellation rates on most days.

Cancellation Rate by City & Weekday


City	Friday	Monday	Saturday	Sunday	Thursday	Tuesday	Wednesday
Bangalore	23.0%	22.9%	22.1%	23.3%	23.9%	23.7%	22.6%
Chennai	22.0%	24.3%	21.7%	22.0%	23.1%	23.1%	24.4%
Delhi	23.3%	23.4%	23.6%	24.1%	24.0%	22.6%	23.5%
Hyderabad	22.7%	22.1%	23.1%	23.0%	23.6%	22.7%	24.5%
Mumbai	23.6%	22.9%	24.7%	23.9%	22.7%	25.0%	23.7%

Cancellation Count by City & Weekday

Distance & Fare relationship

1. Distance and fare have a positive correlation, fare/booking_value increases as distance increases.
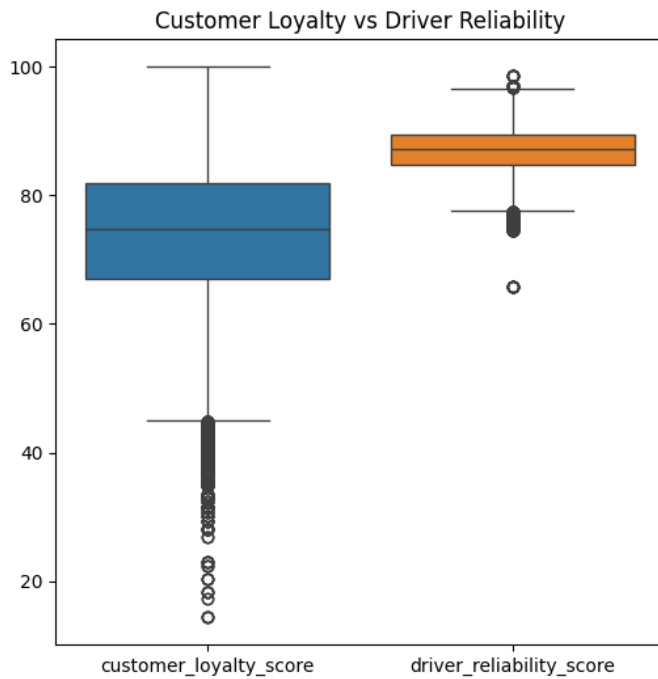

Distance vs Booking Value
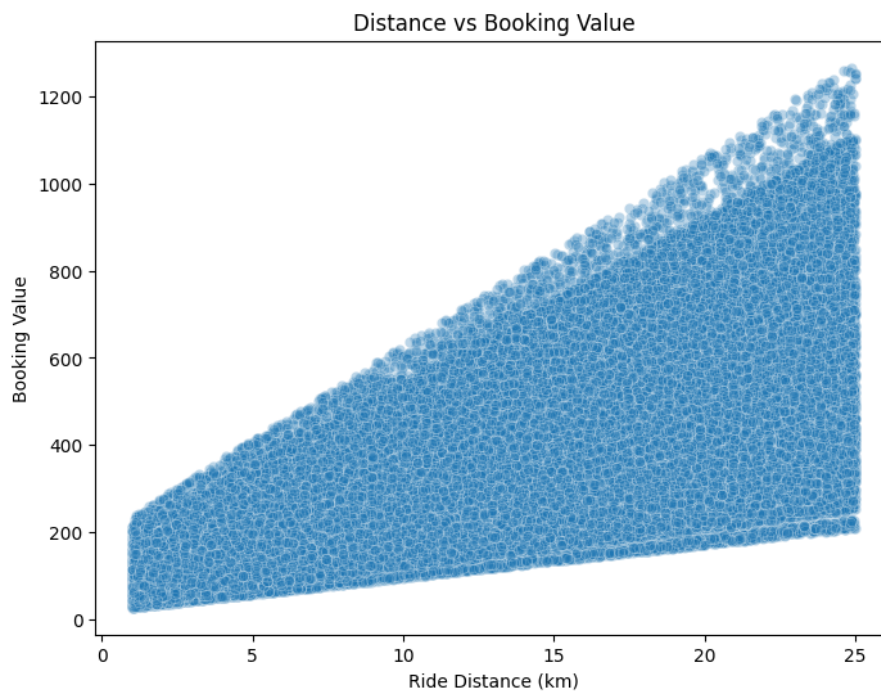
Rating Distribution

1. Average Driver rating is high, between 4-5 which is extremely good.
2. Customer rating ranges from 3.5 to 5, which is still okay, not very poor.

Driver Rating Distribution

Customer Rating Distribution
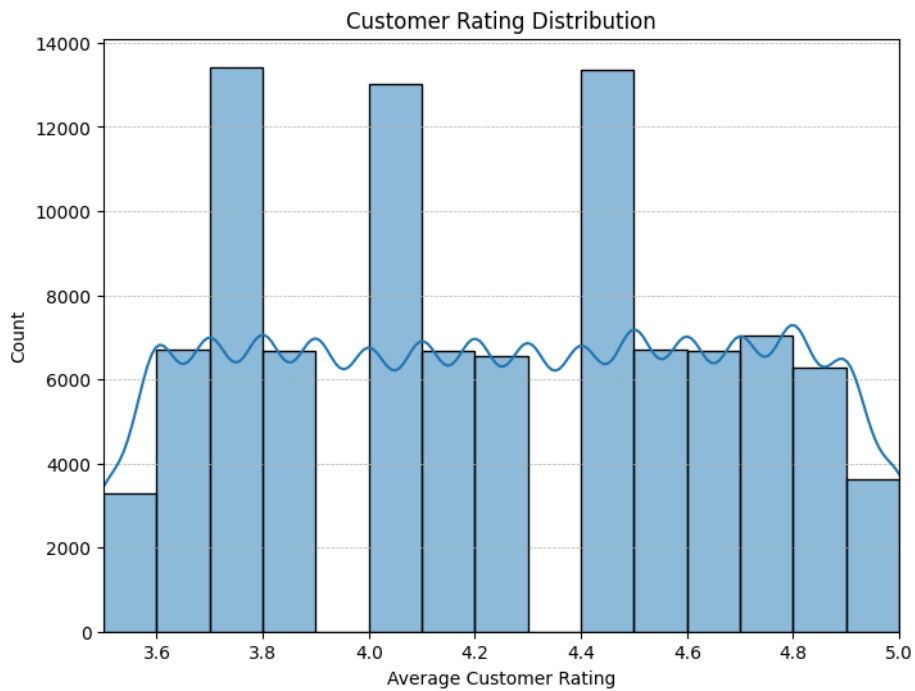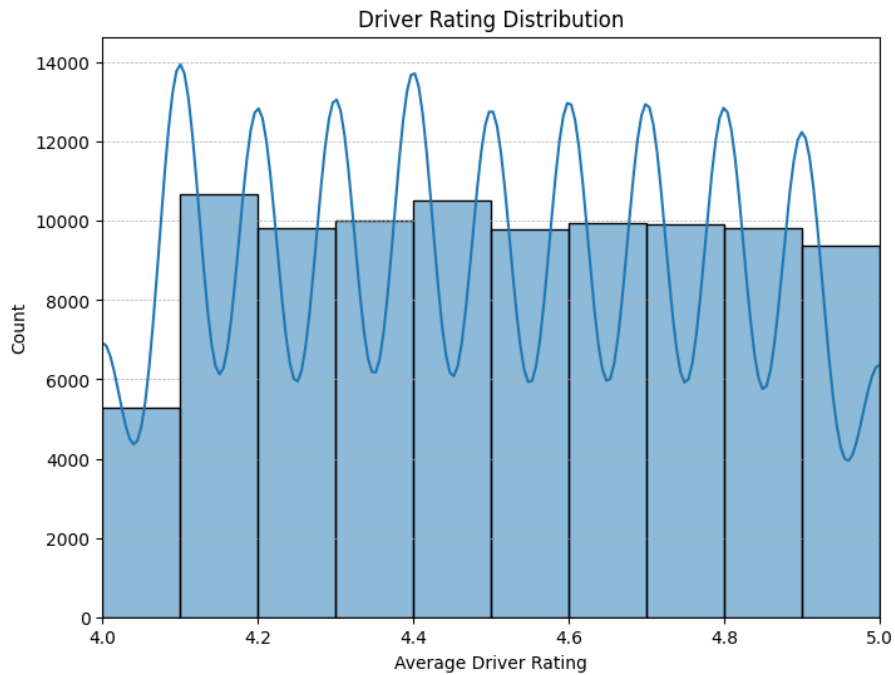
Customer and driver behavior comparison:

Customer Loyalty vs Driver Reliability

Traffic level vs Cancellation rate

Cancellation rate is slightly higher when the traffic is high. It does play some role, but not much

Average Cancellation Rate by Traffic Level