

Data Attributes – Source Provided

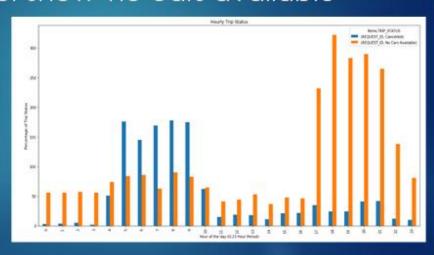
S. No	Attribute Name	Data Element	Attribute Description
1.	Request id	REQUEST_ID	A unique identifier of the request
2.	Time of request	REQUEST_TS	The date and time at which the customer made the trip request
3.	Drop-off time	DROP_TS	The drop-off date and time, in case the trip was completed
4.	Pick-up point	PICKUP_LOC	The point from which the request was made
5.	Driverid	DRIVER_ID	The unique identification number of the driver
6.	Status of the request	TRIP_STATUS	The final status of the trip, that can be either completed, cancelled by the driver or no cars available

Data Attributes – Derived

S.N	Attribute Name	Data Element	Attribute Description
7.	Requested Hour	REQUEST_HOUR	Hour of the day on which the request is made
8.	Requested Timeslot	REQUEST_TIMESL OT	Timeslot – Based on the parts of the day classified as per the Requested Hour
9.	Trip Information	REQ_TRIP	Trip information – City to Airport, Airport to City
10.	Request Status	REQ_STATUS	Status to capture the car availability

Frequency of Requests that get cancelled or show 'no cars available'

- Cancellation:
 - We observe there is huge spike in cancellation of requests from Morning 5 AM to 9 AM
- No Cars available:
 - We observe there is huge increase in nonavailability of cars between 5 PM to 10 PM



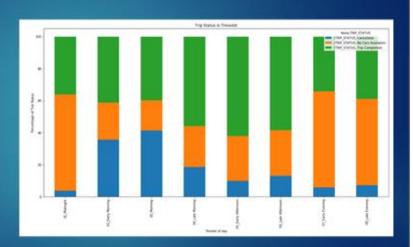
Most Problematic Request

- Both Airport to City ride and City to Airport ride has huge "No car available" issue.
- As we can observe from the pie chart comparing the trips, most problematic ride is the "Airport to City" with close to 53% "No car availability"



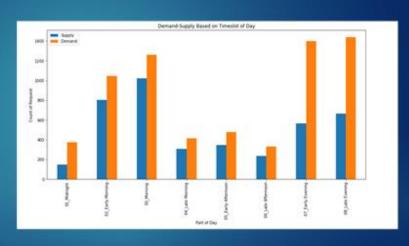
Most Problematic Timeslot

- Based on the chart it is clear that the time slots Early Evening, Late Evening and Mid-night are problematic.
- Reason is there is no availability of sufficient cabs to meet the demand.
- We observe increased cancellation during Early morning and Morning timslot



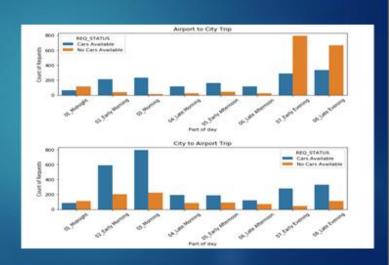
Demand-Supply gap

We could see that there increased gap between the demand and supply during the Early evening and late evening.



Demand-Supply (by Trip)

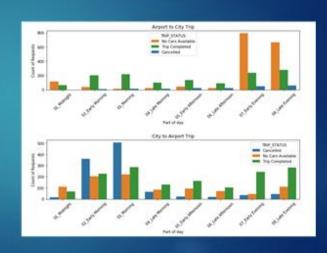
Increase in demand is contributed by "Airport to City trip" during Early Evening and Late evening.



Reason for Demand-Supply Gap

Major reason for the demand-supply gap during Early Evening and Late evening is due to

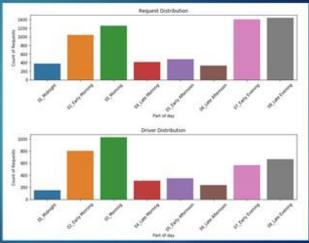
- Successful or higher requests are getting fulfilled by drivers for "City to Airport"
- Unavailable or fewer of drivers in Airport area.



Reason for Demand-Supply Gap contd.

Based on the comparison of requests over timeslot of the day to availability of drivers indicate following:

- Highernumber of drives available in early morning and Morning time which offsets the demand gap in those hours.
- Whereas in the Early evening and Late evening, we have less number of drivers available. This has caused huge number of requests getting "No car available" status



Recommendation

- Provide Additional incentive / bonus to work during the peak hours (evening & late evening)
- During "No car availability", Increase the default search radius by 5-10 KM and compensate the drivers who accept the trip to Airport for customer pickup.
- Encourage drivers to wait at Airport by providing incentive for idle time at airport.

