

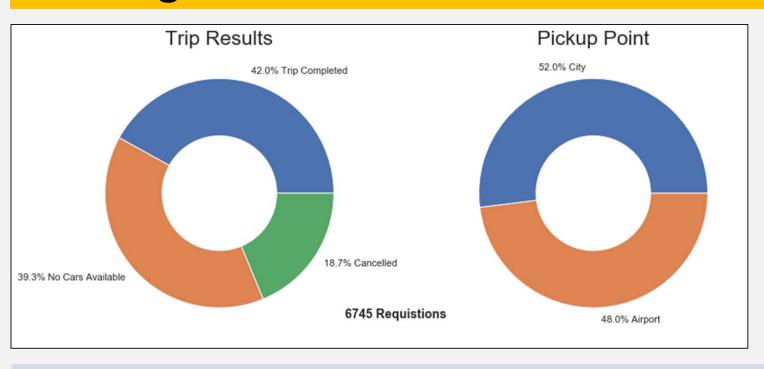
Synopsis

• The available data have the following characteristics.

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Unique Possible Status
['Trip Completed' 'Cancelled' 'No Cars Available']
Data Spread across Month
[7]
Data Spread across dates
[11 12 13 14 15]
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- Five days of data from the month of July in 2016 , with 6745 Requests.
- After Cleaning the data and formatting the structure, we attempt to see any visible patterns in the data.

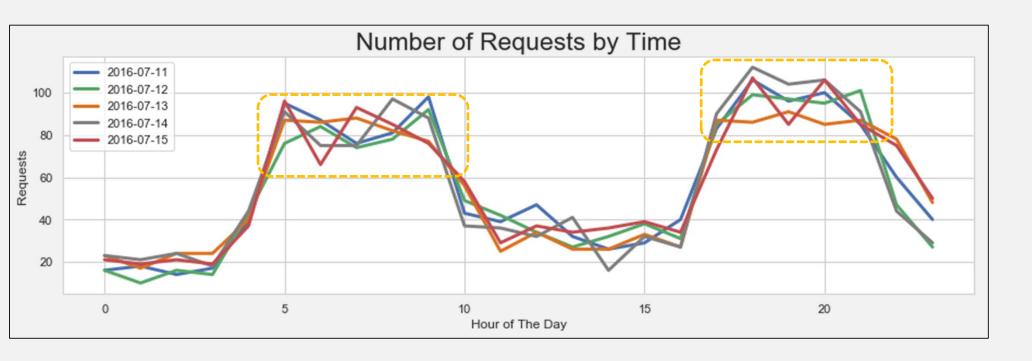
The Big Picture



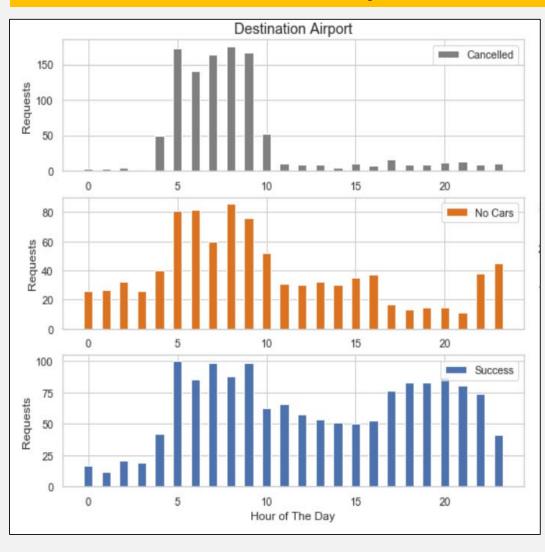
- There's a uniform volume towards and from Airport.
- The Success Rate is only 42% and failures are dominated by No Cars Available !!
- So we ask, how these failures are distributed?
- Do they have any correlation with pick up point or time of the day?

Request Volume

- There are two peaks in the entire day.
- Early morning from 0500 hrs to 0900 hrs and another from 1800 hrs to 2100 hrs.
- During these windows , there are almost 400-500 requests registered per hour.
- Interestingly , mid-day traffic is almost same as early morning.
- What is the distribution of this traffic based on destination ?

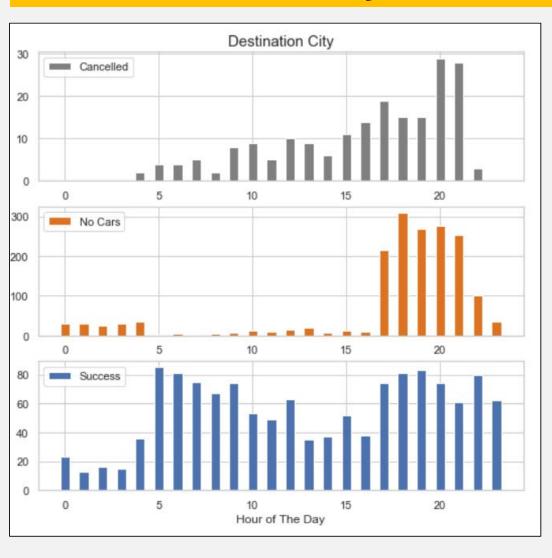


Destination Airport



- We have added all the hourly requests across 5 days.
- For destination Airport, there's a massive cancellation during the 1st peak of the day.
- No Cars also spikes at the first peak.
- No Cars is a persistent problem throughout the day.
- It will be a prudent investigation to check the cancellation source, **Driver or Initiator**?

Destination City



- For destination City, **No Cars** is a severe problem during the 2nd peak of the day.
- Curiously , cancellation climbs steadily from early morning.
- This also warrants further investigation of cancellation source.

Business Impact



Peak Hours

- In both the peak hours, No Cars seems to cause significant revenue loss.
- This is more dominant for arrival flights in the 2nd peak duration.
- A large number of stranded passengers at arrival!!!

Off-Peak Hours

- These hours do not have much volume, but sure affects Uber Reputation.
- On the contrary, despite being low volume hours, success rate is barely 50% !!!

Further Insights

- While, it is relatively straightforward to see No-Cars as a major Problem.
- Some introspection is needed for the 'Cancellation' Problem.
- Further Questions that need to be answered
 - ✓ Are the Cancellation primarily by passengers or Drivers ?
 - ✓ From City to Airport , Cancellation plays a major role during 0600hrs to 1900hrs
 - √ This could be reluctance of drivers to avoid log waiting times in those hours.
 - ✓ However, why Airport to City causes a linear increase in cancellation ?
 - ✓ Are there specific destination in City which the drivers are reluctant to take.
- Further data collection pertaining to Cancellation is requested.