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Why?

Chat with a Part time Uber driver



Goals

Be the most efficient Uber driver in NYC

Data Description



Source: Kaggle

https://www.kaggle.com/datasets/fivethirtyeight/uber-pickups-in-new-york-city



Data set

Uber Pickups in New York City



Shape

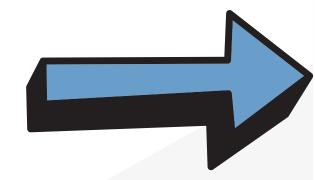
4534327, 4



DATA PREPROCESSING

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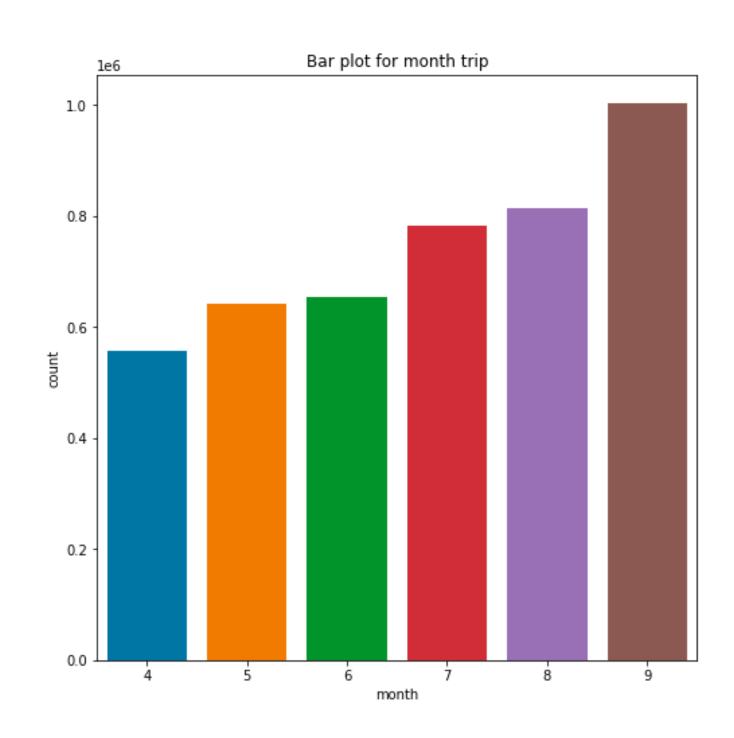
	Date/Time	Lat	Lon	Base
0	9/1/2014 0:01:00	40.2201	-74.0021	B02512
1	9/1/2014 0:01:00	40.7500	-74.0027	B02512
2	9/1/2014 0:03:00	40.7559	-73.9864	B02512
3	9/1/2014 0:06:00	40.7450	-73.9889	B02512
4	9/1/2014 0:11:00	40.8145	-73.9444	B02512



	Date/Time	Lat	Lon	Base	month	weekday	day	hour	minute	
0	2014-09-01 00:01:00	40.2201	-74.0021	B02512	9	Monday	1	0	1	
1	2014-09-01 00:01:00	40.7500	-74.0027	B02512	9	Monday	1	0	1	
2	2014-09-01 00:03:00	40.7559	-73.9864	B02512	9	Monday	1	0	3	
3	2014-09-01 00:06:00	40.7450	-73.9889	B02512	9	Monday	1	0	6	
4	2014-09-01 00:11:00	40.8145	-73.9444	B02512	9	Monday	1	0	11	
652430	2014-05-31 23:45:00	40.7309	-74.0014	B02764	5	Saturday	31	23	45	
652431	2014-05-31 23:52:00	40.7528	-73.9798	B02764	5	Saturday	31	23	52	
652432	2014-05-31 23:55:00	40.7158	-73.9519	B02764	5	Saturday	31	23	55	
652433	2014-05-31 23:56:00	40.6961	-73.8997	B02764	5	Saturday	31	23	56	
652434	2014-05-31 23:59:00	40.7393	-73.9919	B02764	5	Saturday	31	23	59	
4534327 rows × 9 columns										

 $4534327 \text{ rows} \times 9 \text{ columns}$

°°° ANALYSIS BY MONTH



Analysis of which month has maximum rides

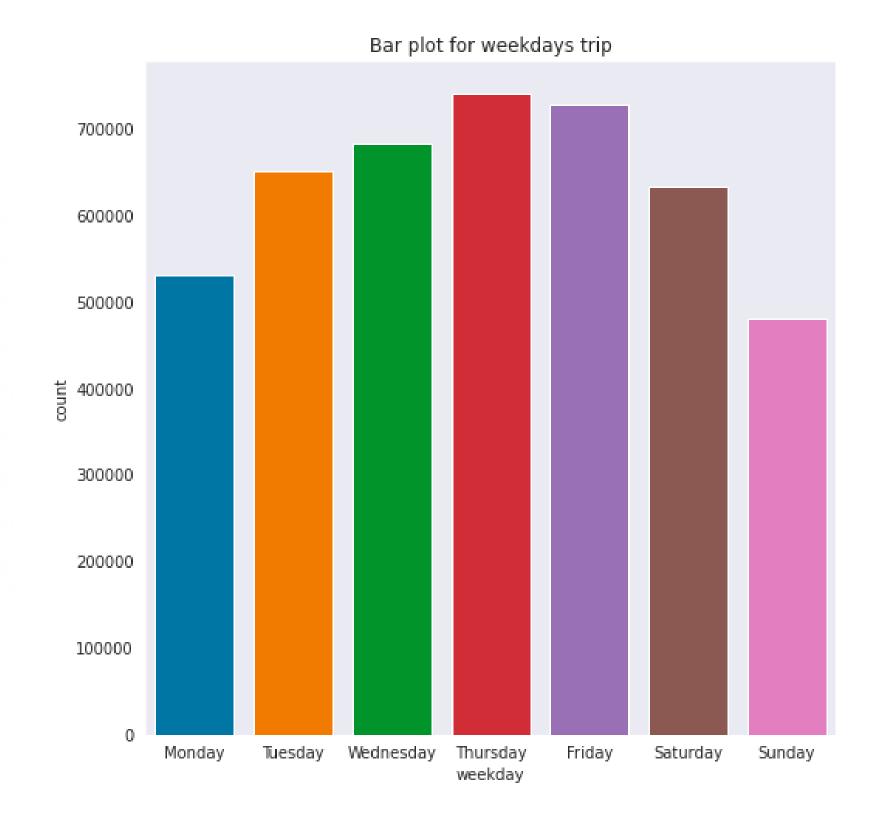
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9 1004099
8 813393
7 781969
6 653158
5 642360
4 556767
Name: month, dtype: int64
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WEEKDAY ANALYSIS

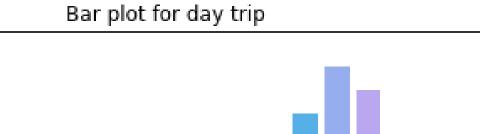
0000

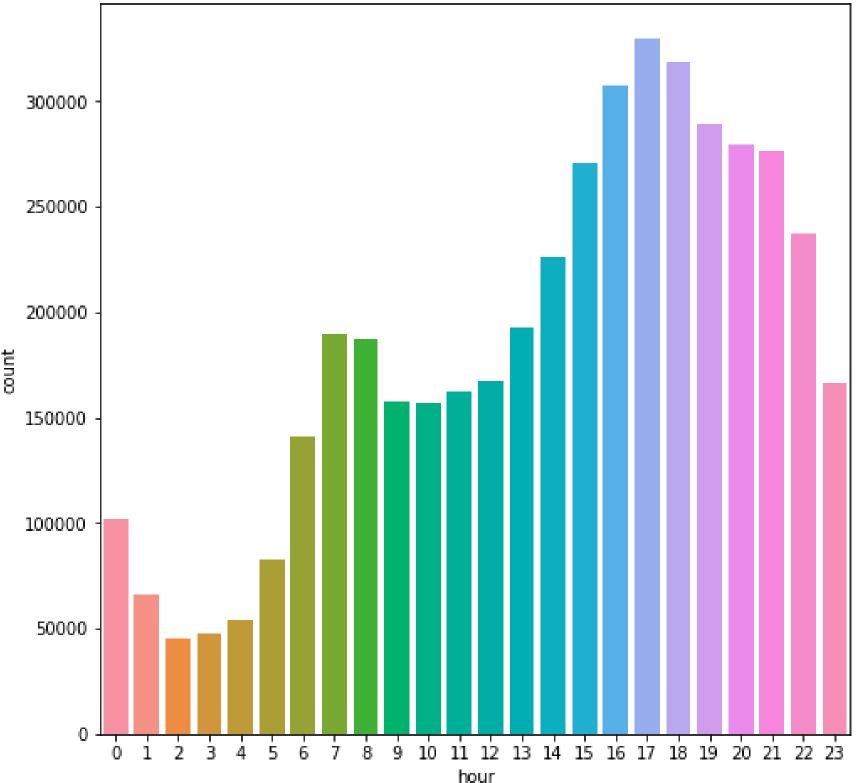
Thursday 741372
Friday 727532
Wednesday 683604
Tuesday 651753
Saturday 634194
Monday 532133
Sunday 481158
Name: weekday, dtype: int64





ANALYSIS BY DAYS 0000





Which is the busiest hour in the day for uber cabs?



7:00-8:00

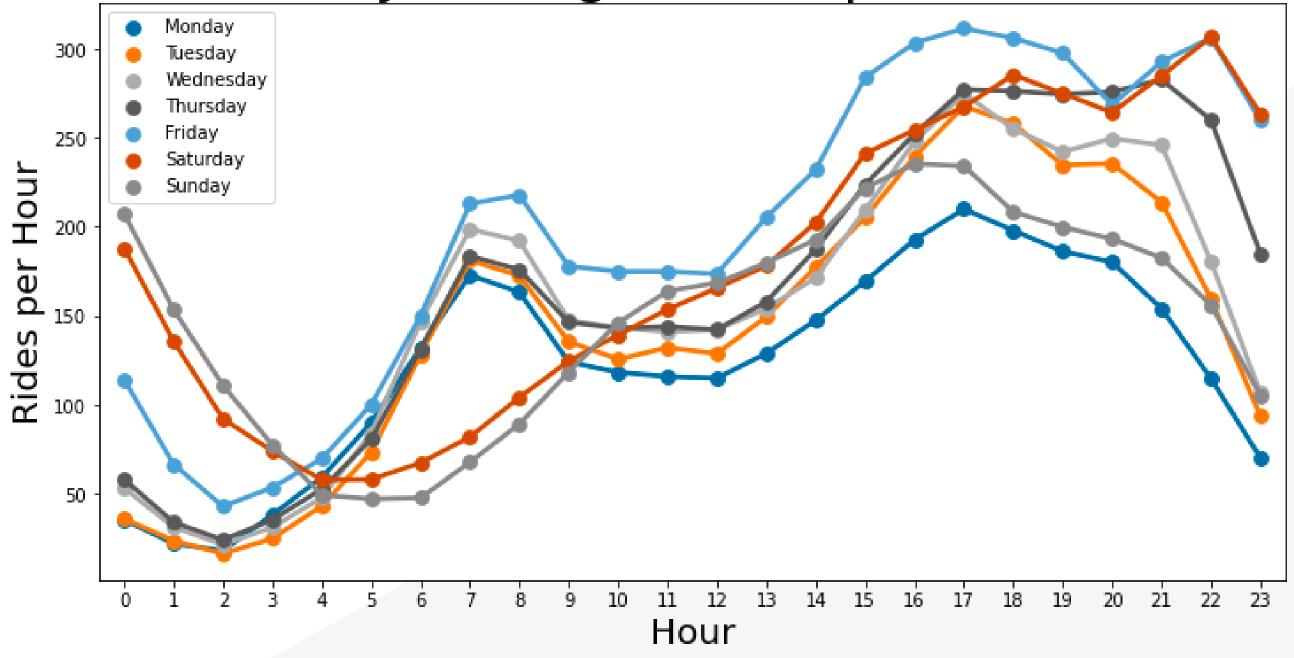


17:00-18:00

commuting time



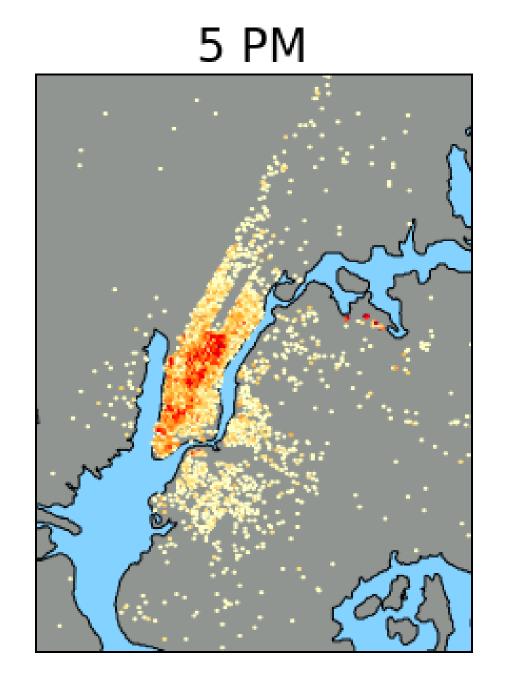
Weekday Averages for September 2014

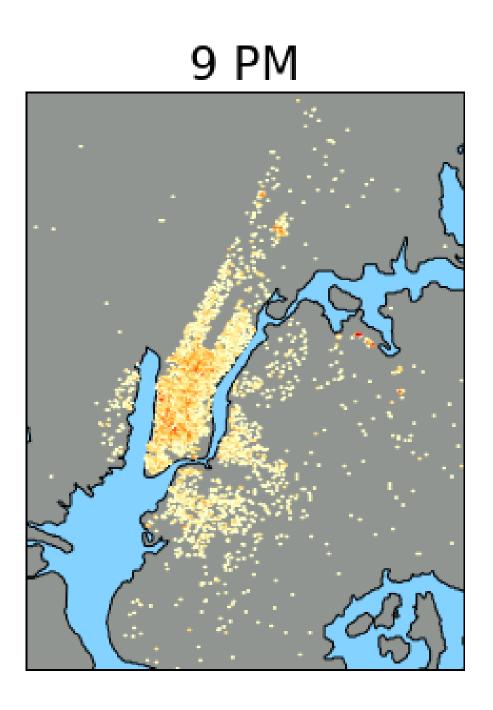


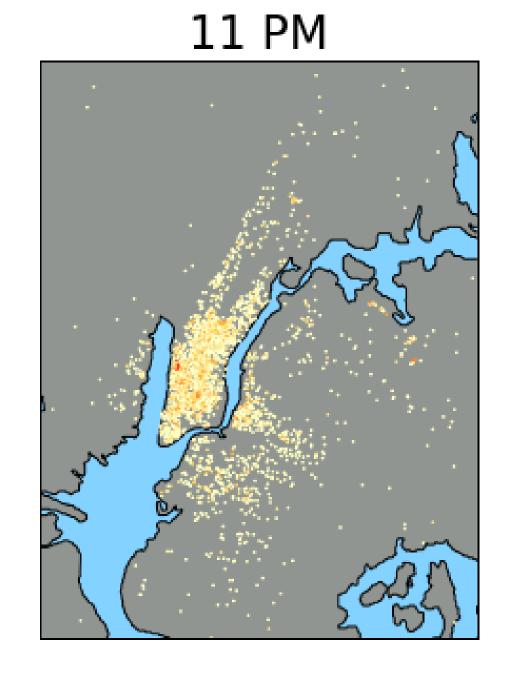
workday vs weekends



THURSDAY ANALYSIS

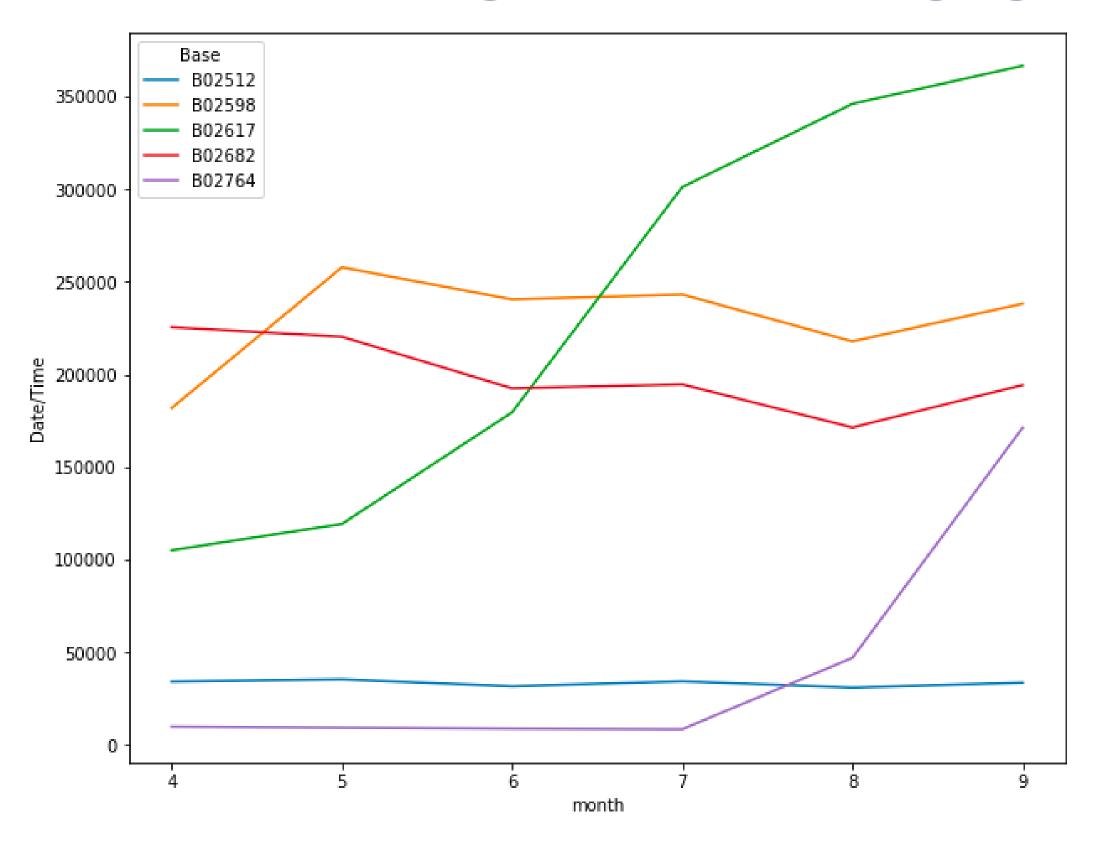






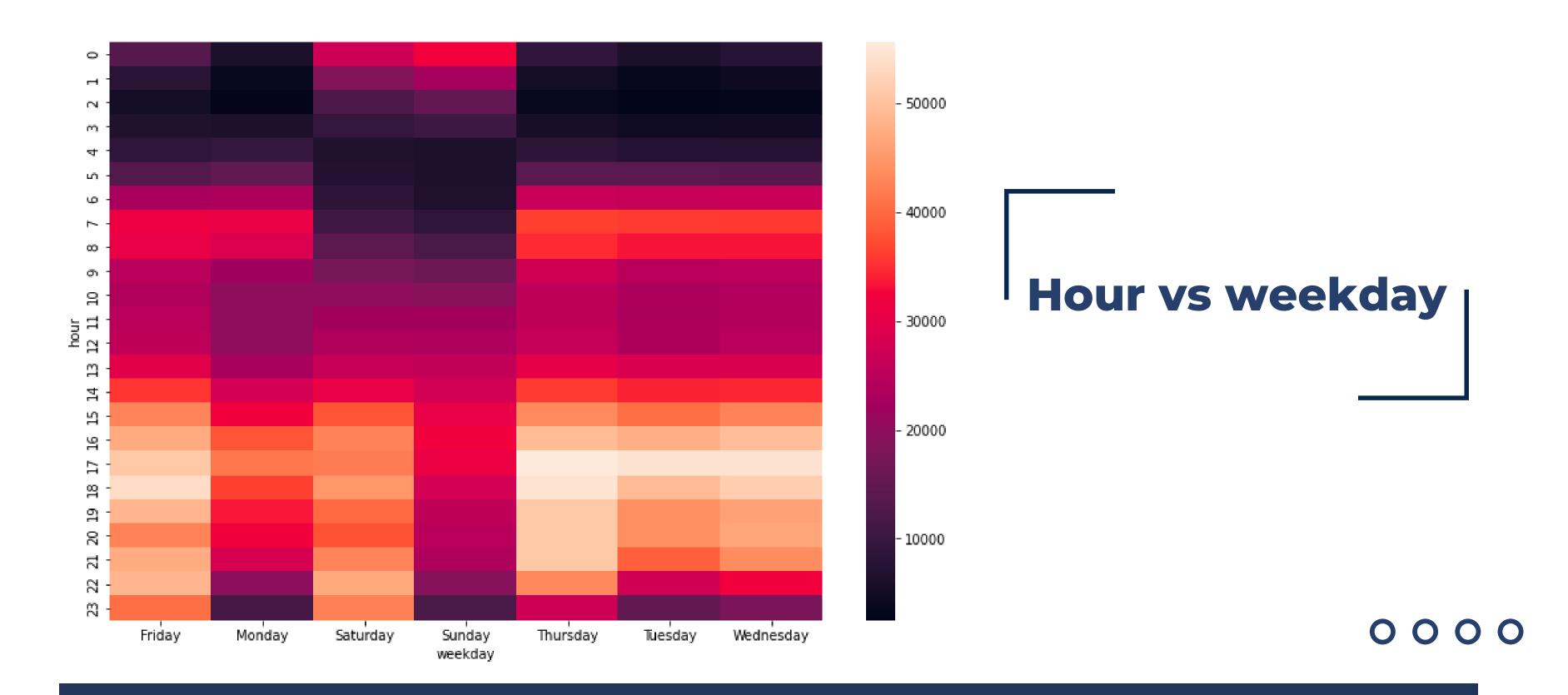


0000 BASE ANALYSIS

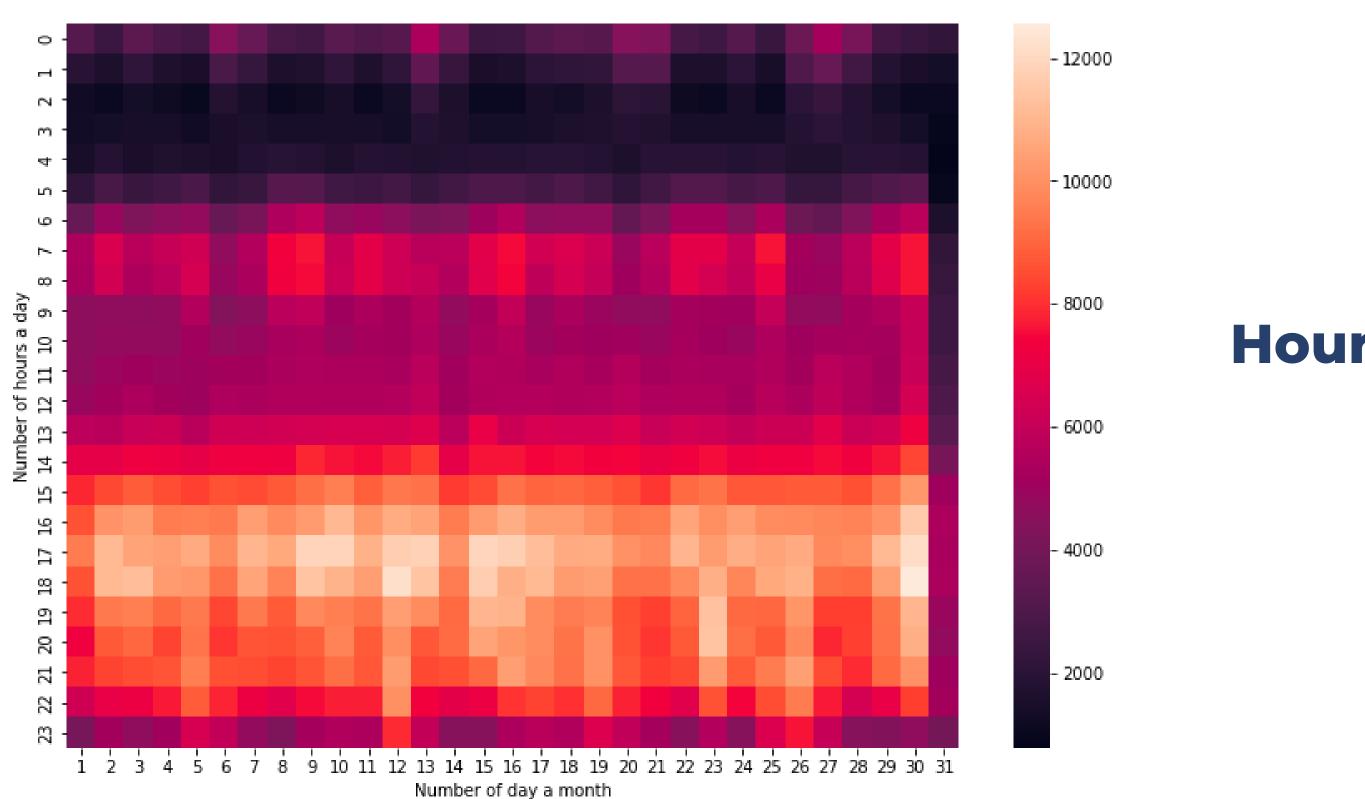


Area vs Month

0000 CROSSANALYSIS

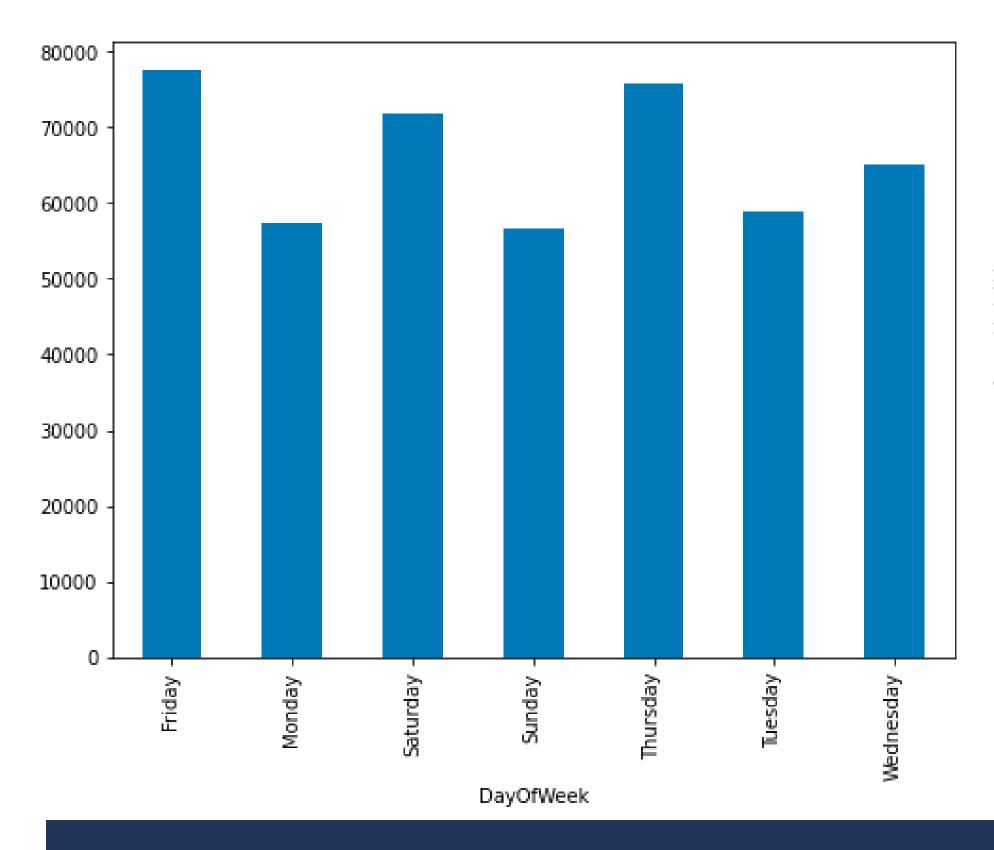


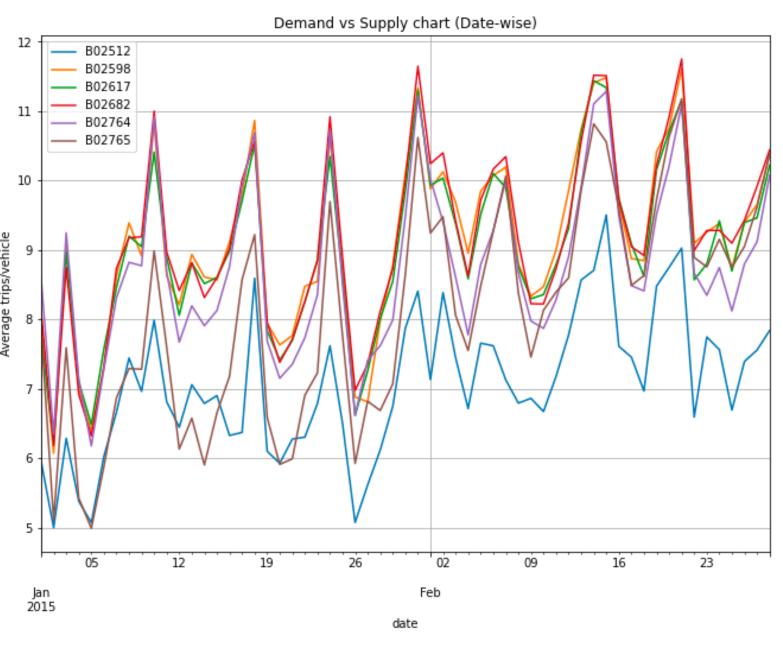
0000 CROSSANALYSIS





0000 DEMAND-SUPPLY ANALYSIS









Weekday Analysis

Thursday & Friday



Time Analysis

17:00 - 18:00



Advice to driver

Only work on Thursday & Friday 4pm - 7pm