UrbanClap Assignment

This is the solution to the Assignment 1 for the Business Analytics intern position in UrbanClap, Gurgaon

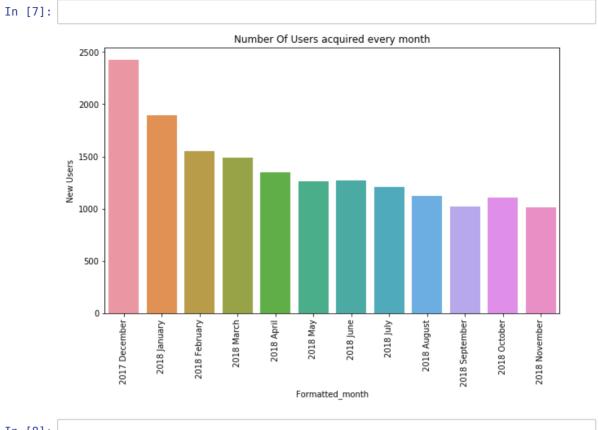
The following queries have been solved in this assignment

- Plot new users acquired every month on a bar chart (New user in a month = a cus tomer who has placed a request for the first time ever)
- 2. 30-Day repeat rate is defined as percentage of new users who have placed a 2nd order within 30 days of placing their first order. What is the 30-day repeat rate of users acquired in December 2017?
- 3. What is the 90-day repeat rate of users acquired in Jan, Feb, March 2018?
- Use logistic regression to predict the 90-day repeat of users acquired in Novem ber 2018.
- 5. Plot the distribution of users by frequency of their 90-day repeat (Number of times user repeated within first 90 days)

Solution 1: Users acquired every month on a bar chart

In [6]:			
Out[6]:			
			New Users
	Year Of Booking	Month Of Booking	
	2017	12	2424
	2018	1	1892
		2	1549
		3	1490
		4	1346
		5	1264
		6	1273
		7	1208
		8	1120
		9	1020
		10	1110
		11	1015

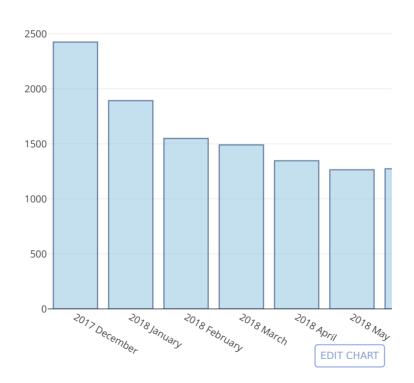
3. Plotting / Visualising the data for num_of_new_users (Number of new users) w.r.t. month and year



In [8]:

Out[8]:





Insights

- Number of new users in January 2018 dropped the most ie 28.118 %
- Number of New Users in May had dropped almost about to 52.14% of sales in Deceember 2017
 However, the total users engaging on the service remained roughly the same as seen in the above graph

Solution 2: What is the 30-day repeat rate of users acquired in December 2017?

Solution:

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30 Day Repeat Rate (for less than 30 days) : 16.625412541254125
30 Day Repeat Rate (for less than equal to 30 days) : 16.831683168316832
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Solution 3 : What is the 90-day repeat rate of users acquired in Jan, Feb, March 2018?

Solution

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30 Day Repeat Rate (for less than 90 days) : 20.54350030419793
30 Day Repeat Rate (for less than equal to 90 days) : 20.74629892516731
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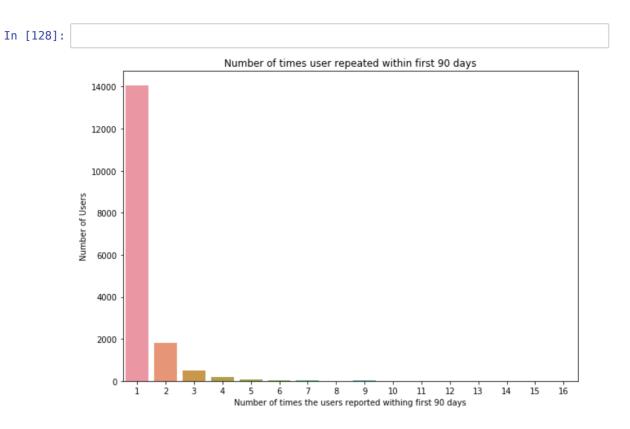
Solution 4 : Predict the 90-day repeat of users acquired in November 2018 using Logistic Regression

Solution

Predicted 90 day rate :25.254237288135593

Solution 5: Plot the distribution of users by frequency of their 90-day repeat

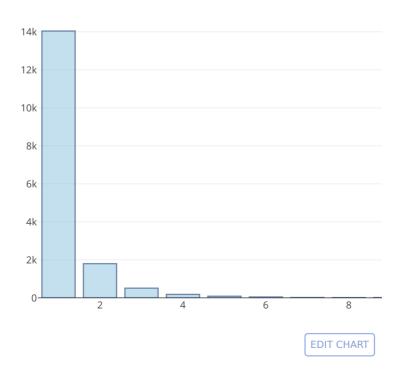
2. Plotting Using Seaborn



3. Plotting Using Plotly for more interactivity







Closing Note

I would like to express my appreciation for considering me to be a part of the internship technical round.

I hope you like this small sampling of my work.

I SINCERELY want to work with a company as good as UrbanClap

I look forward to create many such documents and more with your team

Please get in touch just in case if you think I missed anything at the below contact details

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