

Exploratory Data Analysis G2M insight for Cab Investment firm

Agenda

Case Study

Data Exploratory

Analysis Approach in (Gross, Trip Cost, and Transactions).

Studying the Margin and Customers.

Conclusion



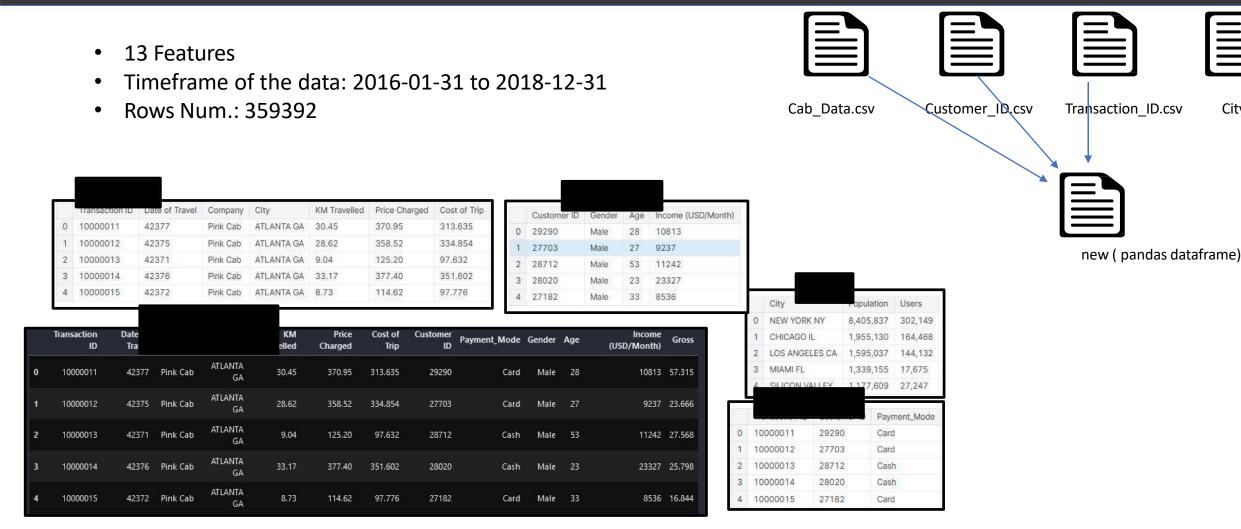
Case Study

- XYZ is a private equity firm in US. Due to remarkable growth in the Cab Industry in last few years and multiple key players in the market, it is planning for an investment in Cab industry.
- Objective: Provide actionable insights to help XYZ firm in identifying the right company for making investment.

The analysis has been divided into four parts:

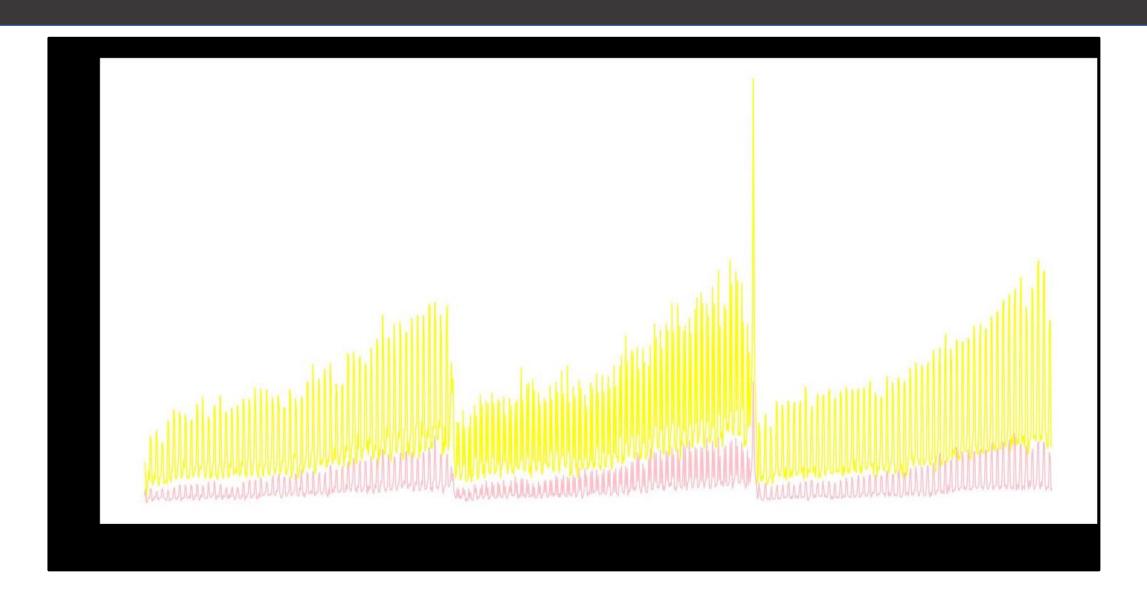
- Data Understanding
- Forecasting profit and number of rides for each cab type
- Finding the most profitable Cab company
- Recommendations for investment

Data Exploratory

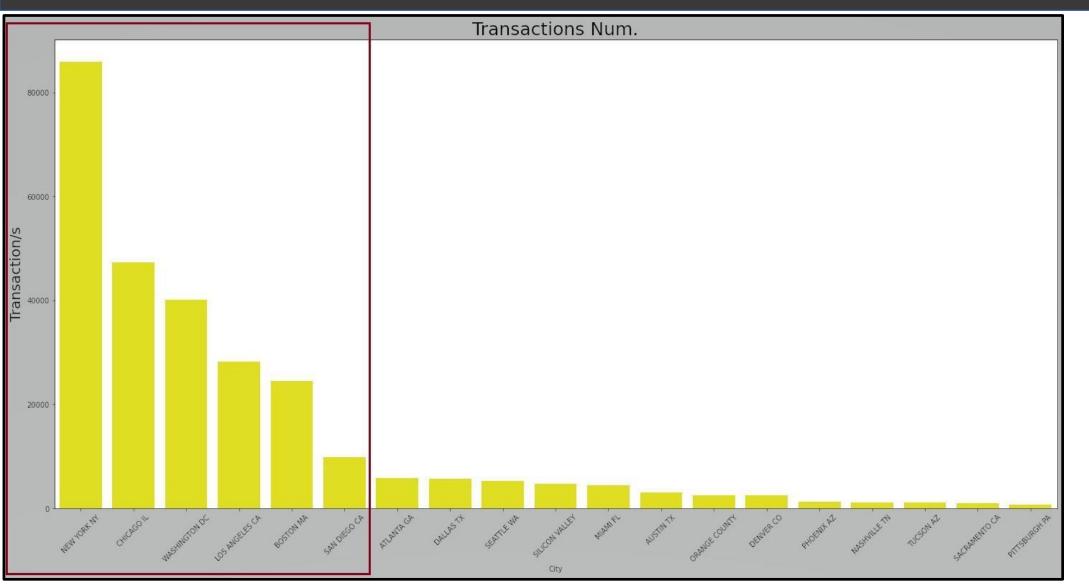


City.csv

Cost of Trips Analysis

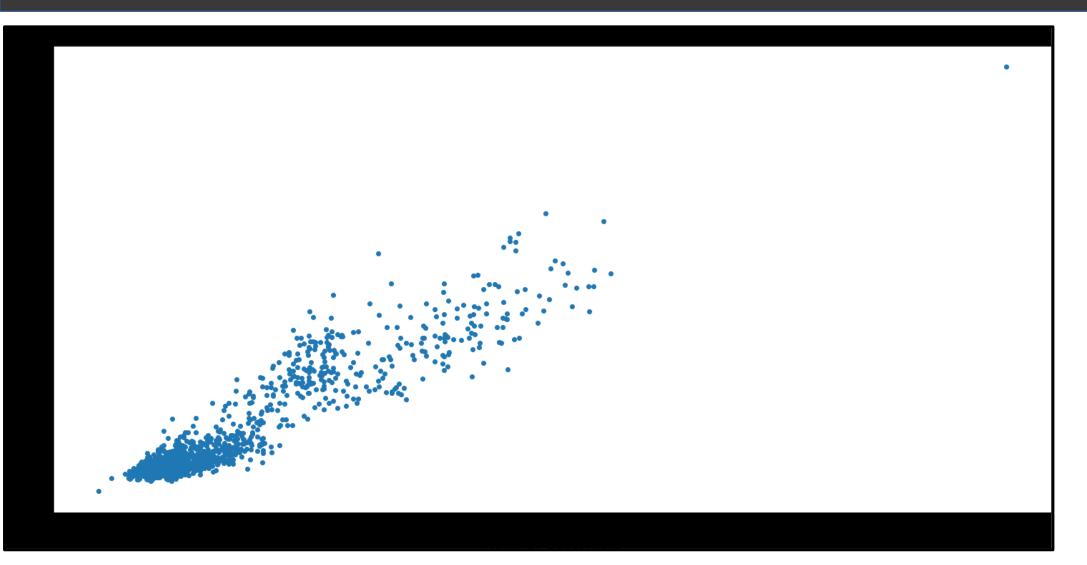


Cities Rank with Respect to Transactions Num



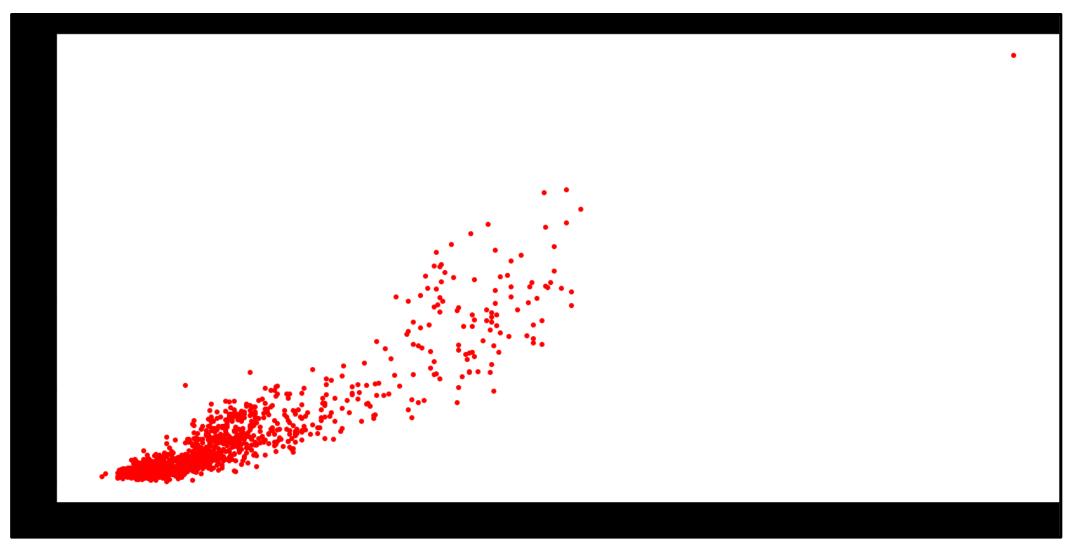
- The most 6
Cities which
had the
highest
number of
transactions
between
01.01.2016
and
31.12.2018

Does margin proportionally increase with increase in number of customers?



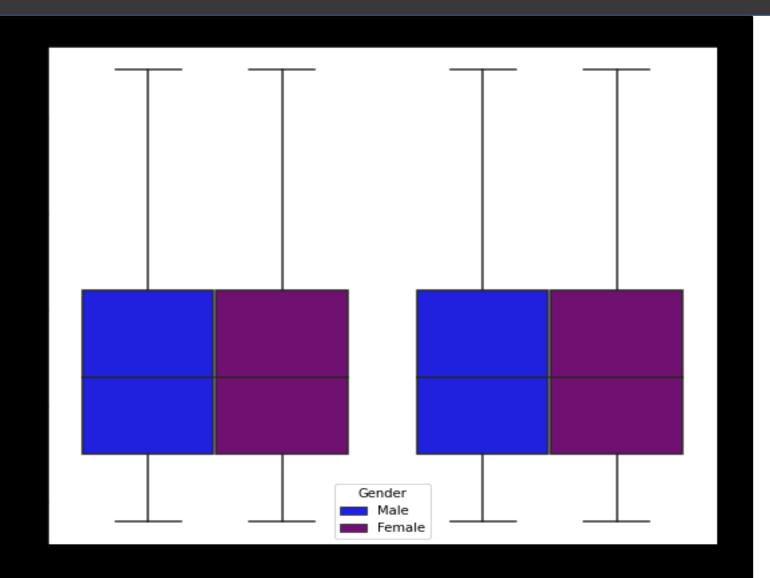
- Scatter plot tells us that there's a strong positive correlation between the gross and number of customers in **Yellow Cab** , with correlation coefficient of 0.9325

Does margin proportionally increase with increase in number of customers?



- Scatter plot tells us also that there's a strong positive correlation between the gross and number of customers in Pink Cab , with correlation coefficient of 0.92

Customers' Attributes & Segments

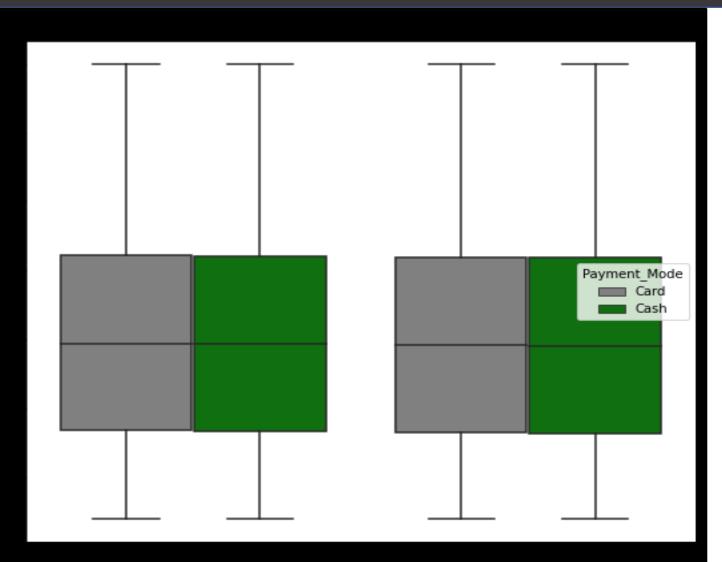


- The median age for both companies' customers is approximately the same which is 33 for the two genders.

And the average of ages in both companies and genders also was the same which is 35.

Total Customers Num. in Yellow Cab is	39896
Total Customers Num. in Pink Cab is	32330
The common Num. of Customers between the two Companies is	26078

Customers' Attributes & Segments



- The median income for both companies' customers is approximately the same which is around 14.900 for the two genders.

Average Income for Yellow Cab = 14.952 \$/Mo

Average Income for Pink Cab = 15.094 \$/Mo

The Retained Customers' Payment Methods Count

Company	Payment Mode	Count
Pink Cab	Card	8949
	Cash	5880
Yellow Cab	Card	18868
	cash	12451

Conclusion

- We have seen how Yellow cab has a higher gross and transactions number while also have a higher trip cost i.e. a higher operational cost for the one trip.
- Yellow cab has a bigger presence in the major and most popular cities in the US in a high number of transactions in those cities with a slight difference in the rank.
- The gross increases proportionally with the rise of customers num., and income average of the customers was around 15.000 \$/Mo and it looks that the customers tend to pay using card.
- Customers average age for both companies and genders appears to be 35 year. And Yellow cab has 13.818 unique retained customer, while Pink cab has retained 6.252 unique customer in the market for its own.

Yellow Cab obviously fits well for investment.

Thank You

