G2M case study -Cab Industry-

Name: Fawzi El Khatib

Location: Lebanon

Team: Data and Analytics

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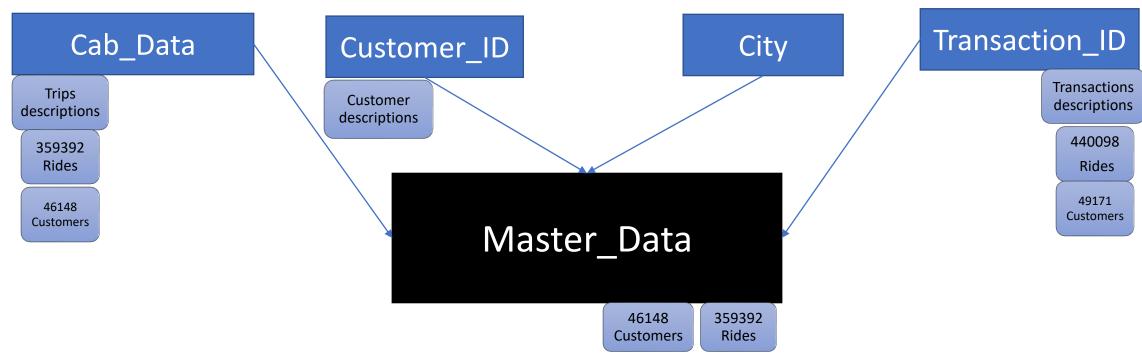
Project Overview and Objectives

- Overview: XYZ is a private company in the US. Due to remarkable growth in the Cab Industry in last few years, it is planning for an investment in Cab industry and as per their Go-to-Market strategy they want to understand the market before taking final decision.
- Objective: Provide actionable insights to help XYZ firm in identifying the right company to invest in.

In this Presentation we will go through:

- Data Understanding
- Number of Rides and Profit analysis
- Customer Analysis
- Recommendation

Data Understanding

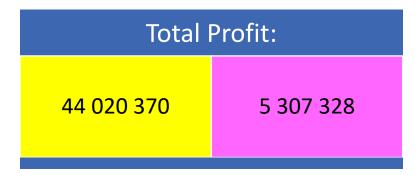


- Profit calculated using Price Charged Cost of Trip
- Treat our data as a well sample of all trips (80,706 Undescribed Rides, 3023 customers)
- Users in City data treated as number of all cab users in the City
- Timeframe of the data: 02/01/2016 → 31/12/2018
- Assuming no outliers because we don't have the trip duration

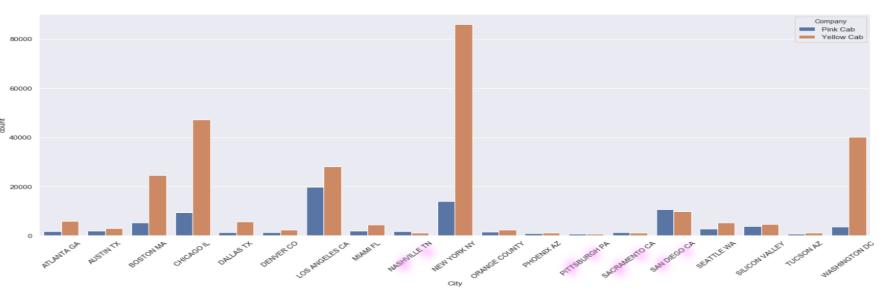
Number of Rides: 274681 84711 76.4% of trips 23.6% of trips

General Idea

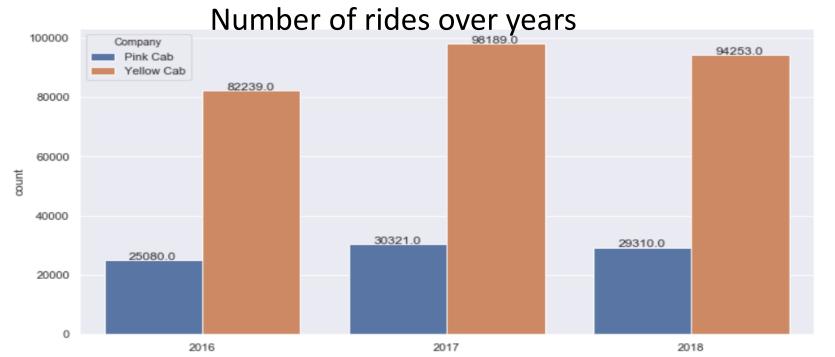
	Average			Median			Min			Max		
Compan y	Cost of Trip	Price Charge	Profit	Cost of Trip	Price Charge	Profit	Cost of Trip	Price Charge	Profit	Cost of Trip	Price Charge	Profit
Pink Cab	248.14	310.80	62.6521	246.330	298.06	41.5	19.0	15.60	-220.06	576.0	1623.48	1119.48
Yellow Cab	297.92	458.18	160.259	295.596	425.06	102.0	22.8	20.73	-176.93	691.2	2048.03	1463.96



Number of Rides by cities



- Pink Cab is dominant in just 4 out of 19 cities
 - San Diego
 - Nashville
 - Sacramento
 - Pittsburgh



- Both follow same variation over years
- $2016 \rightarrow 2017$:
 - +21%
 - +19.3%
- $2017 \rightarrow 2018$:
 - -3.2%
 - -4%

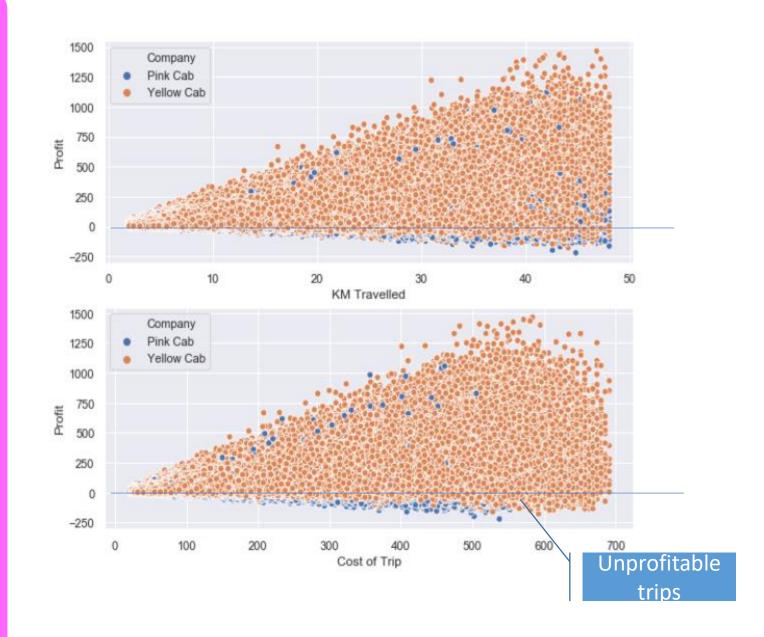
Relationship between "Profit" & "Price, Cost & KM-Travelled"

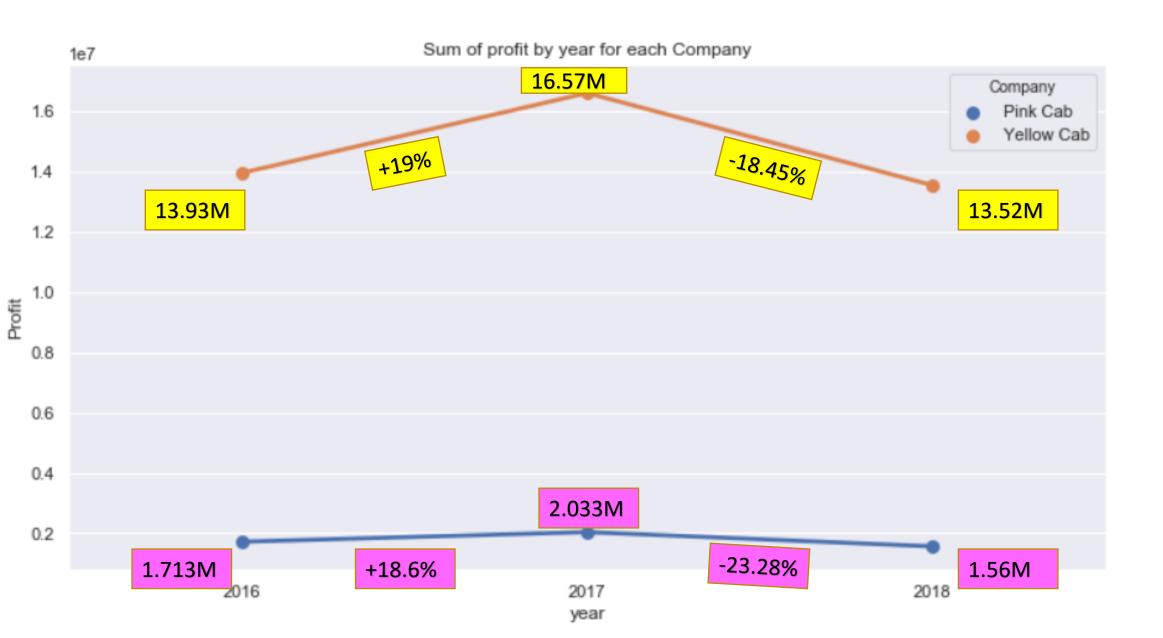
Yellow Cab



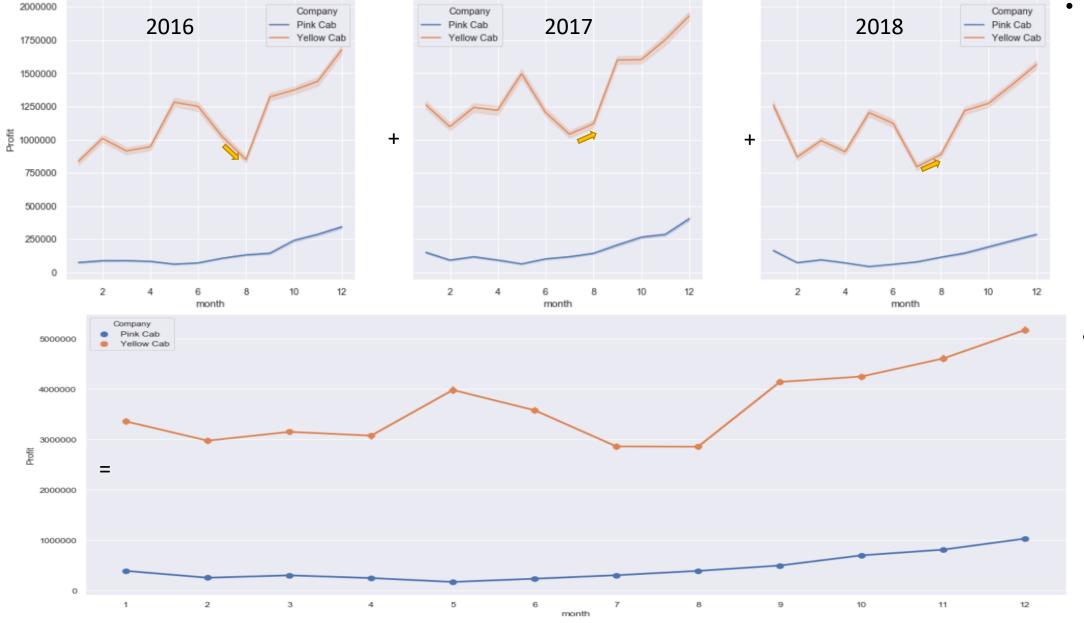
Pink Cab







Monthly Profit Analysis

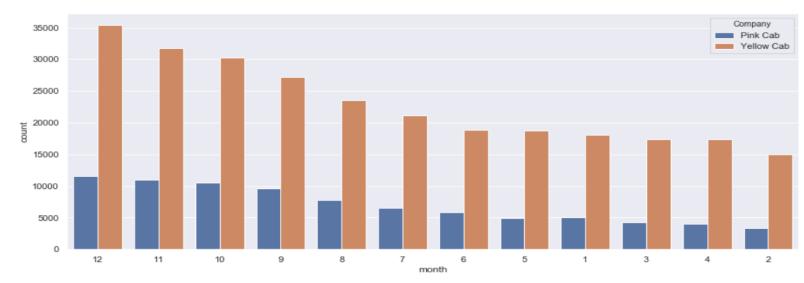


 Each of Both firms Follows almost the same variability over the years

 Sum of Profit for each month

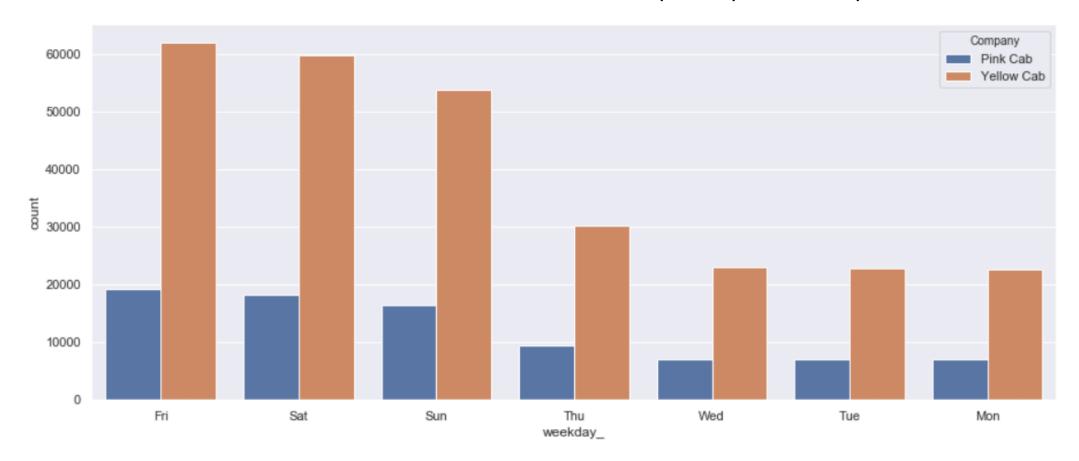
Ride Analysis by months





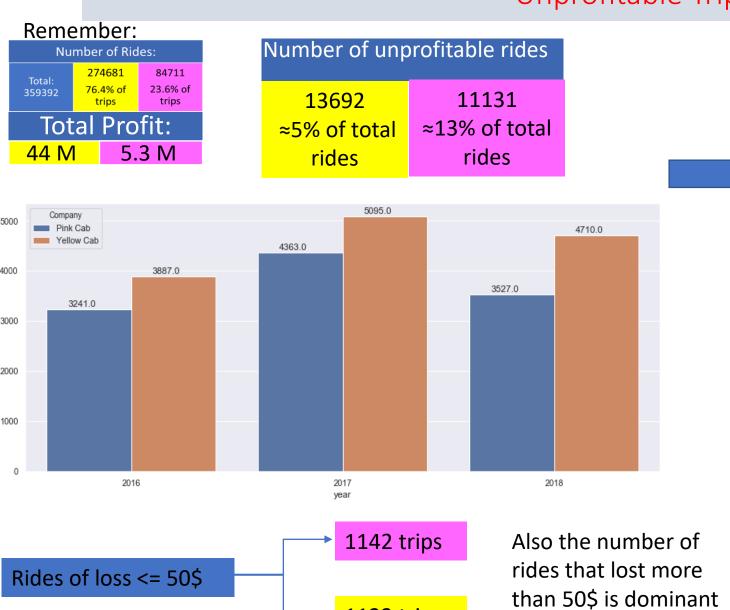
- Both company follow the same distribution over the months
- Higher demand from summer till holiday months

Number of rides analysis by weekdays



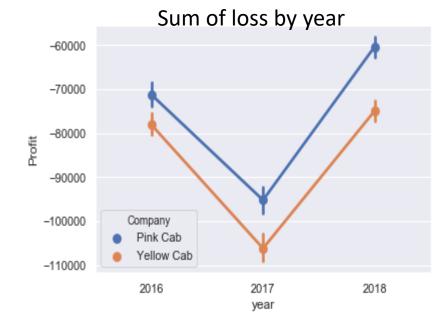
> Demand on cabs increased in day offs (holidays and weekends)

Unprofitable Trips



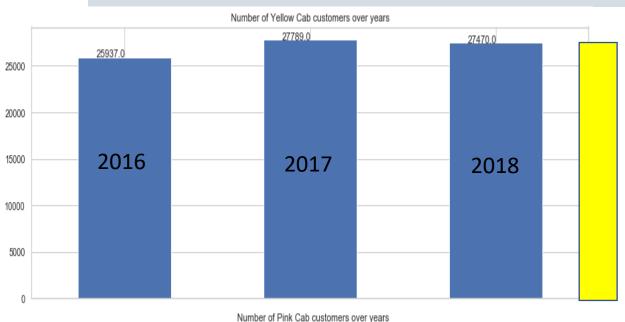
1133 trips

by Pink Cab

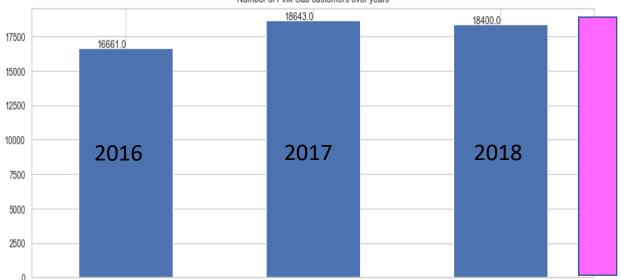


 The differences of losses considered close by comparing them to the differences in profit → Yellow Cab is better in managing more profitable rides.

Customer Analysis



 Number of customers decreased by 1.1% from 2017 → 2018



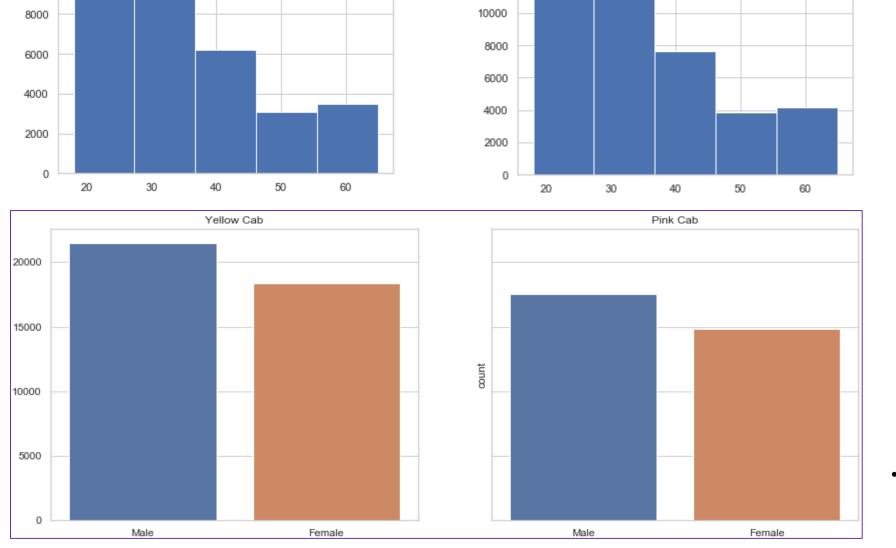
 Number of customers decreased by 1.3% from 2017 → 2018

> ▶ By considering the higher customer base of Yellow Cab company comparing to Pink Cab and the \ in percentage we can say that Yellow is better than Pink cab company in term of Customer retention

Customer analysis: Age and Gender wise

histogram showing the ages of Pink Cab Customers

10000



12000

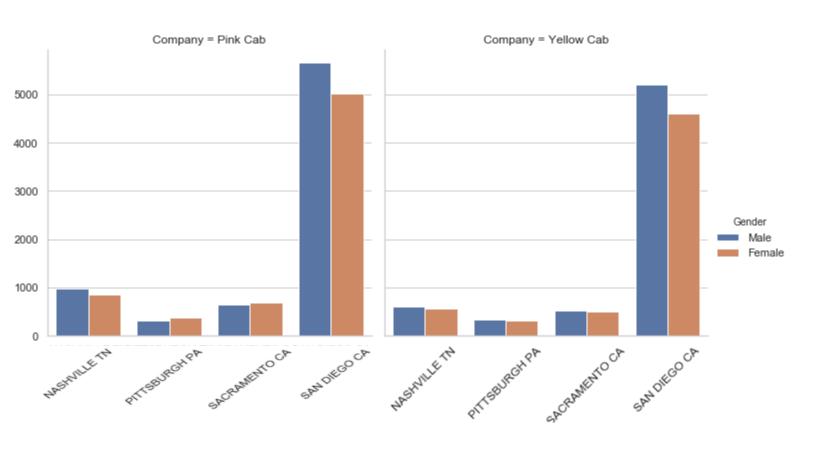
histogram showing the ages of Yellow Cab Customers

Both have 25% of their customers btw 42 and 65 years old

The customers are similarly distributed in terms of Age and Gender for both companies

40% of all rides have been made by Women

Gender wise analysis for cities where Pink Cab is dominant



➤ The Pink color has no significant influence in attracting women customers

 number of trips belongs to men is almost always more than women except for Pink Cab in Pittsburgh and Sacramento

Conclusion:

Based on the evaluation of both the cab companies. We found that the Yellow Cab is better than Pink Cab in terms of:

- Customer reach: Yellow Cab is dominant by all the cities except 4.
- Profit: Overall, Average profit. Yearly profit, Monthly profit showed stability for Yellow Cab
- Unprofitable trips: Yellow Cab is better in managing the rides.
- Customer Analysis: Yellow Cab has a much bigger Customer base than Pink Cab.

Recommendation:

We Recommend **Yellow Cab** for investment

Thank You