



Data Glacier

Your Deep Learning Partner

Exploratory Data Analysis

Cab Project

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Agenda

Goal

Approach

EDA

EDA Summary

Recommendations

Goal

Make a recommendation for XYZ, a private firm in the U.S., on which cab company, Pink or Yellow, to invest in.

Approach

To make a data-driven decision I analyzed:

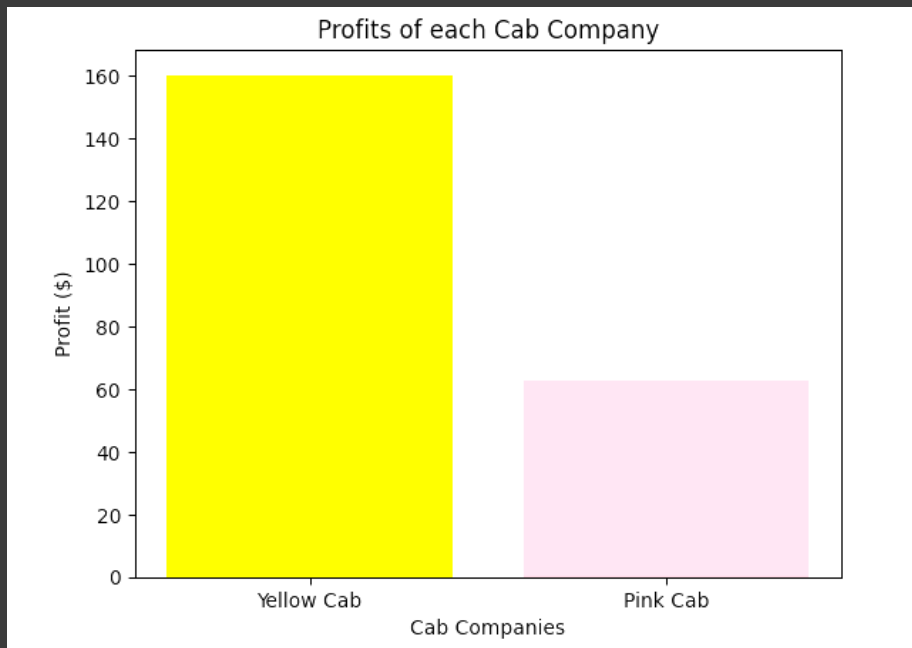
- Average Profit Per Ride
- Popular Cities and the Cab Company presiding over them
- Average KM traveled per ride
- Amount of transactions for each company
- Percent of Cash and Credit Transactions for each company

Average Profit Per Ride

Yellow Cab Average Profit Per Ride: 160.26

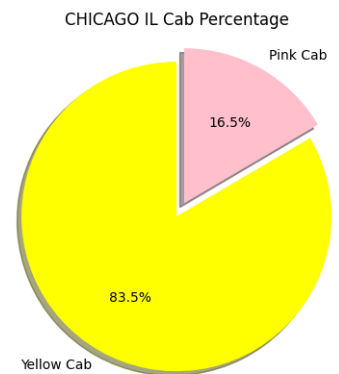
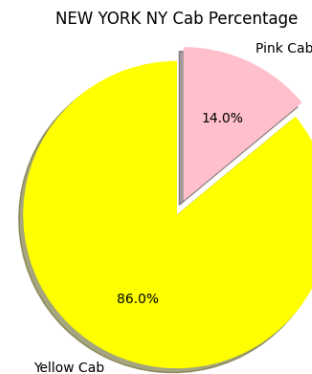
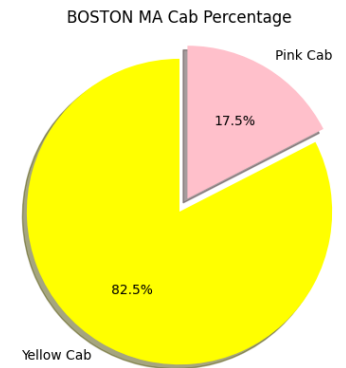
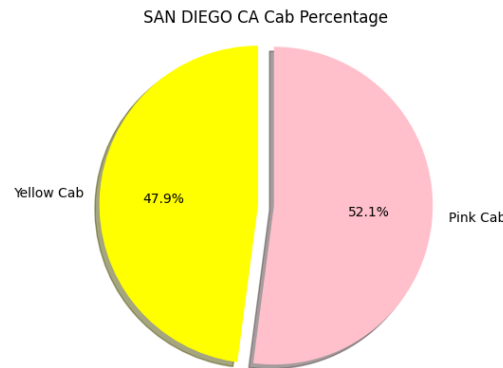
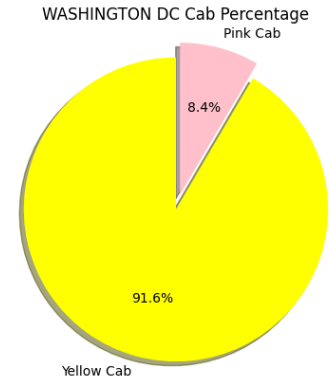
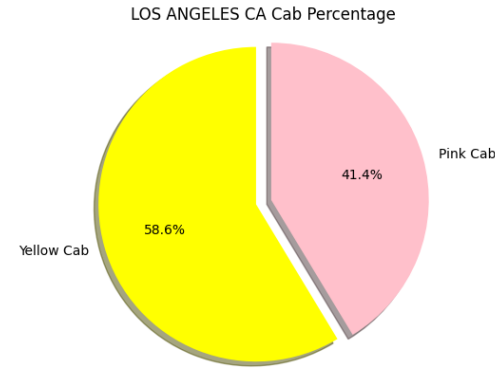
Pink Can Average Profit Per Ride: 62.65

The Yellow Company is making almost 100 more dollars than the Pink Company on each ride. This already is a very strong indication that Yellow Company would be a more successful investment. However, further analysis must be performed to ensure that is correct.



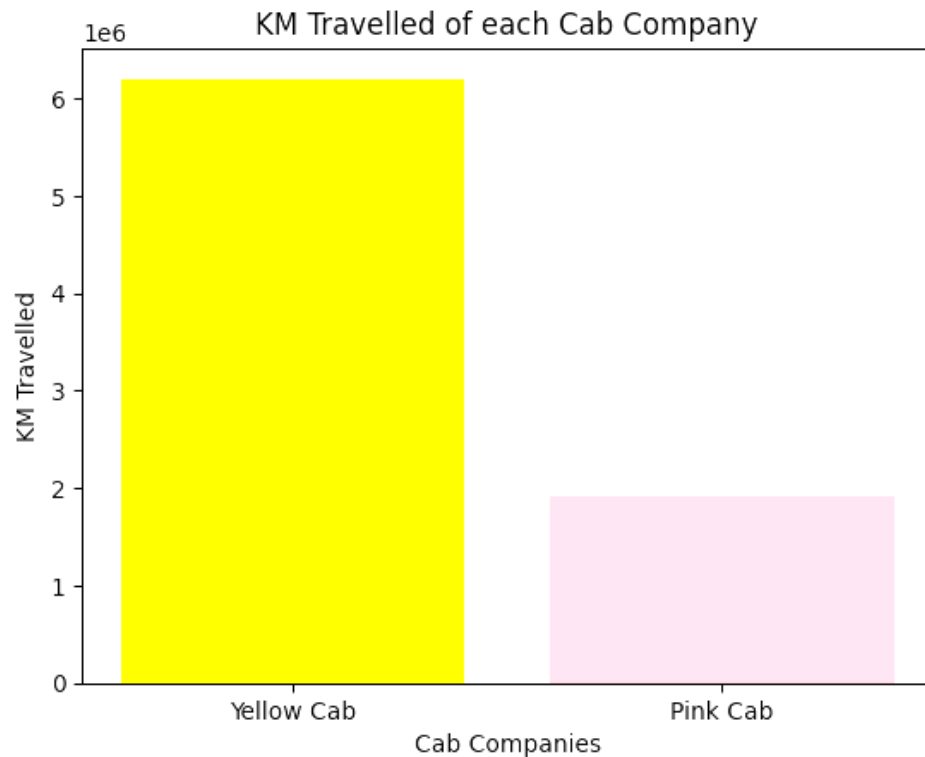
Popular Cities

The Yellow Cab Company is more popular in 5/6 most populous cities. It maintained nearly 80% in New York, Chicago, Boston, and Washington. The only city in which the Yellow Company has less is San Diego. This further supports my assumption that Yellow Cab Company will be the better investment.



KM Travelled of each Cab Company

KM travelled for each company:
Yellow Company – 6,199,417 KMs
Pink Company – 1,911,073 KMs



The Yellow Company, yet again, outshines the Pink Company by having around 4 million more KMs travelled.

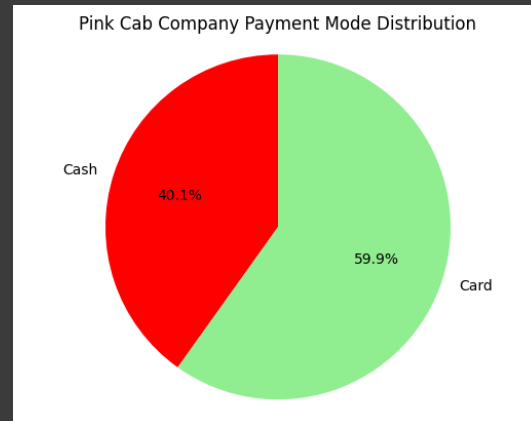
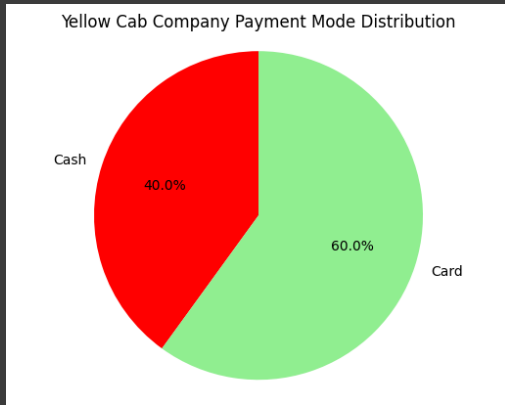
Total Transactions

Pink: 84,711

Yellow: 274,681

The Yellow Cab Company has 189,970 more transactions than the Pink Cab Company. This indicates that the Yellow Cab Company is getting significantly more rides than the Pink Company. Additionally, the Yellow Cab Company is making more profit per ride.

Percent of Cash and Credit Transactions



Both Pink and Yellow Cab Company have the same percentage of cash and card payments

Summary + Recommendation

Through my analysis, I've come to the conclusion that Yellow Cab Company is a much better investment than Pink Cab Company for XYZ. This is because Yellow Cab Company has:

- Higher Average Profit Per Ride
- More Customers in Popular Cities
- Higher KM Travelled
- Higher Total Transactions

Thank You