Dataset

Ford GoBike System Data: This data contains the rides of bike in February month in a bike-sharing system in a Francisco Bay area. Its contain 183412 trip with 16 feature.

Summary of Exploratory Findings

- The most common gender is male then female and other is a little number of users.

- Subscriber user are most common in the data more than customers.

- The most common ages are between 20 and 40 years.

- The trip durations are below 200 minutes and age is below 60. the more Age increase the duration is slightly decreased. I expect the more age increase the duration will be highly decrease.

- Other have the higher duration trips then females then males, the duration increased significantly for all gender types in Sunday and Saturday.

- I found there is no thing noticed about gender change along day time in both customer and subscriber. in subscriber the most trips at 8, 9 ,17, 18 o'clock.

- the count of rides for subscribers is decreased Significantly in the weekend days (sat, sun) and for the customer there's no significantly increase or decrease of trips expected in Thursday the trip count increased for both types of users.

- So, I think subscriber users use the bike to go colleague or work.

Key Insights included in the Presentation

For the presentation, I focused on the Age and duration distributions, I found the most range between 20 and 40 years and most durations less than 2000 seconds. When I get relation between age and duration I found that the more Age increase the duration less slightly not as I expected. Then I plot the trip count for each user type in the days of year and I found Saturdays and Sundays trips are significantly decreased in subscriber users. And when I get relation between the user types and day hours I noticed the most rides are in 8 and 17 o'clock. After that I get relation between duration and user types within week, the mean of trip duration of

customers are more than subscribers specially in Weekends. So may users specially subscriber most of them use the bike to go work or university not like customer.

Then, I get relation between the mean of durations for each day in the week for each gender and I found other gender have the most duration mean and the duration is increased for all user genders specially in Saturdays and Sundays.

Resources

https://github.com/meet3012/Ford-GoBike-System-Data-Visualization

https://github.com/ijdev/Ford-GoBike-System-Data---Data-Analysis/blob/master/readme.md

https://seaborn.pydata.org/tutorial/color_palettes.html

https://seaborn.pydata.org/generated/seaborn.barplot.html