

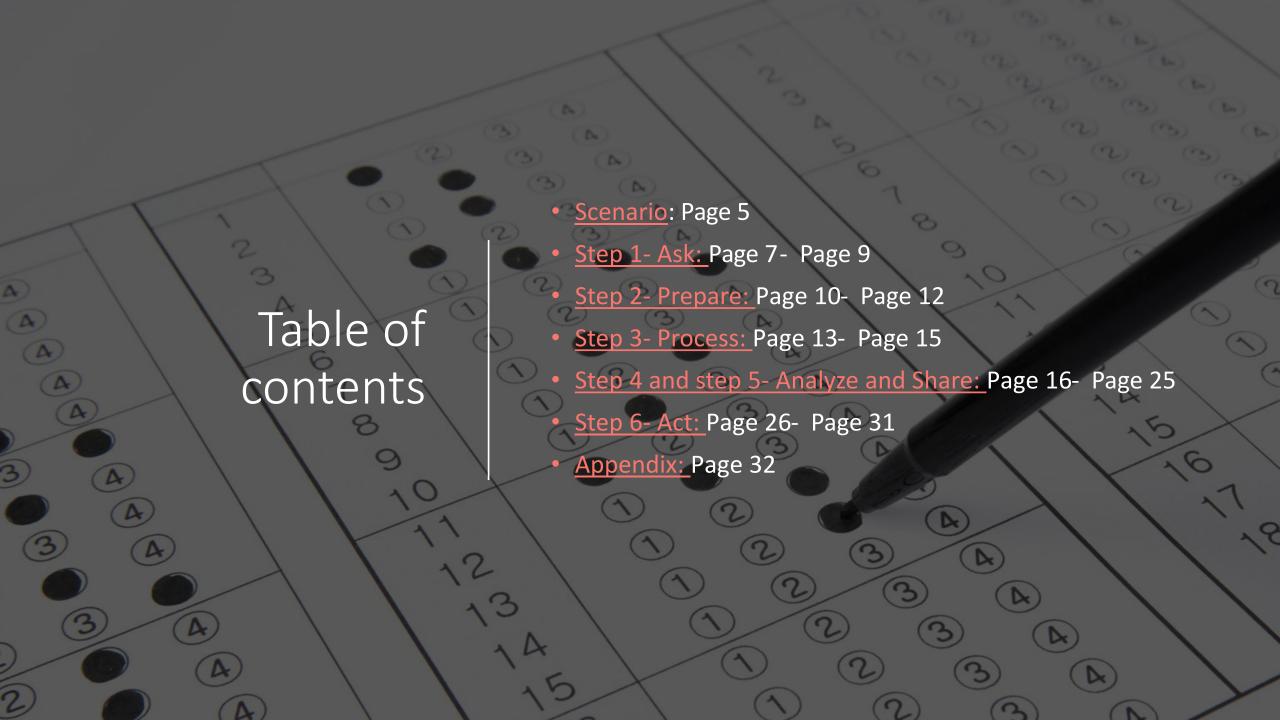
#### coursera

## Grow with Google



Google Data Analytics Professional Certificate Capstone Project





# Hello!

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#### Cyclistic

A bike-share program that features more than 5,800 bicycles and 600 docking stations



the company's future success depends on maximizing the number of annual memberships

use data-insights to understand how casual riders and annual members use Cyclistic bikes differently

design a new marketing strategy to convert casual riders into annual members

#### **About the process**

**Step 2: Prepare** 

Step 5: Analyze

Step 6: Act

?

create a strategy for collecting and aggregating the data



Analyze data to answer the question



recommendations based on the insights



**Step 3: Process** 

get data ready for analysis



**Step 5: Share** 

share insights with stakeholders



Step 1: Ask
define business
objective

# Step 1: Ask

#### **Annual subscribers**

# How do annual members and casual riders use Cyclistic bikes differently?

**One-time purchasers** 

#### **Business tasks**



differences between annual members and casual riders. Then, answer the question of why casual riders choose the one-time purchase



Support the datadriven decision by conclusions that help design a marketing strategy to convert casual riders into annual members

# Step 2: Prepare

#### Sources

 Data was obtained directly from company records available at

https://divvy-tripdata.s3.amazonaws.com/index.html

 License to use data is available at <u>https://www.divvybikes.com/data-license-agreement</u>

Data is collected from January 2021 to December 2021

## Why the data is

R eliable

riginal

C omprehensive

**C** urrent

**C** ited



# Step 3: Process







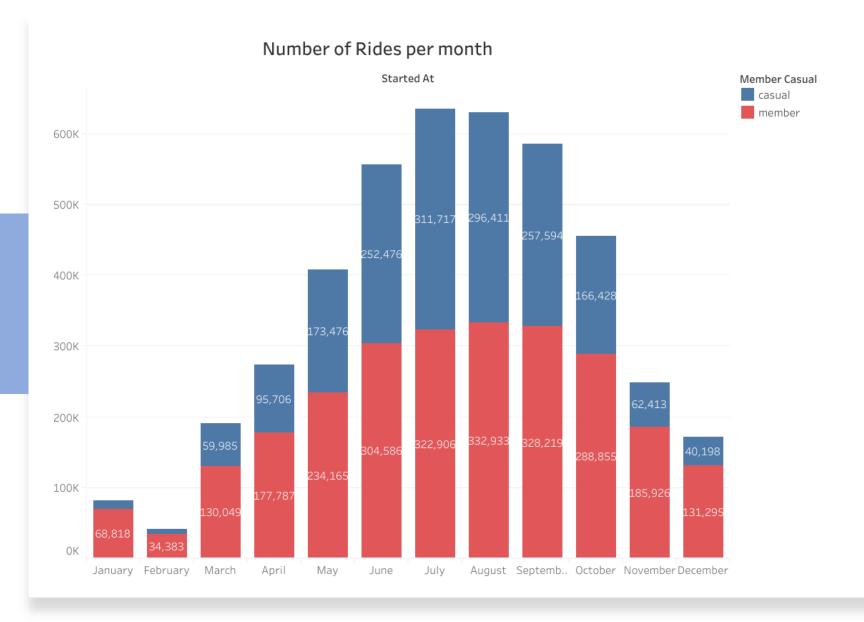


### Tools used

#### Data cleaning and manipulation

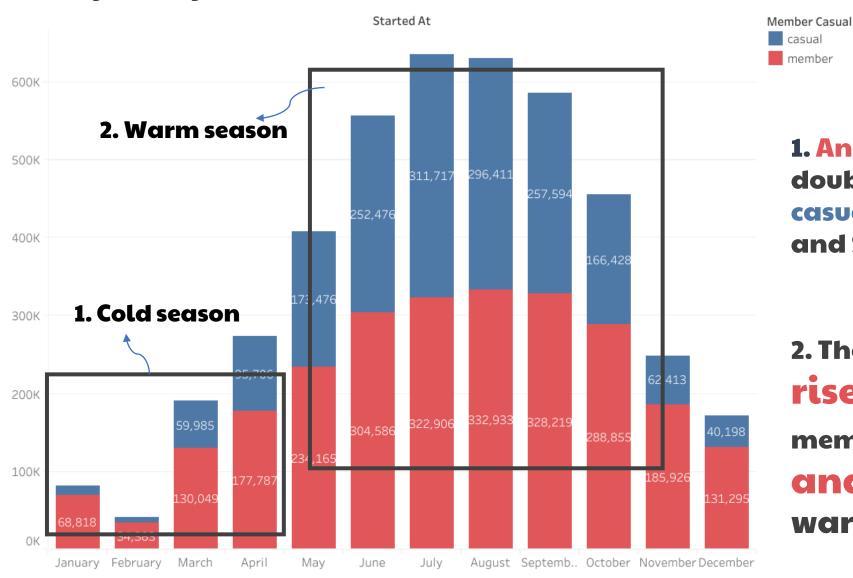
- Data was cleaned and manipulated using R and Tableau.
- Add ride length (=end time start time) and day of week (of start day).
- Remove rows that have ride length less than 60 seconds and any missing values.

# Step 4: Analyze



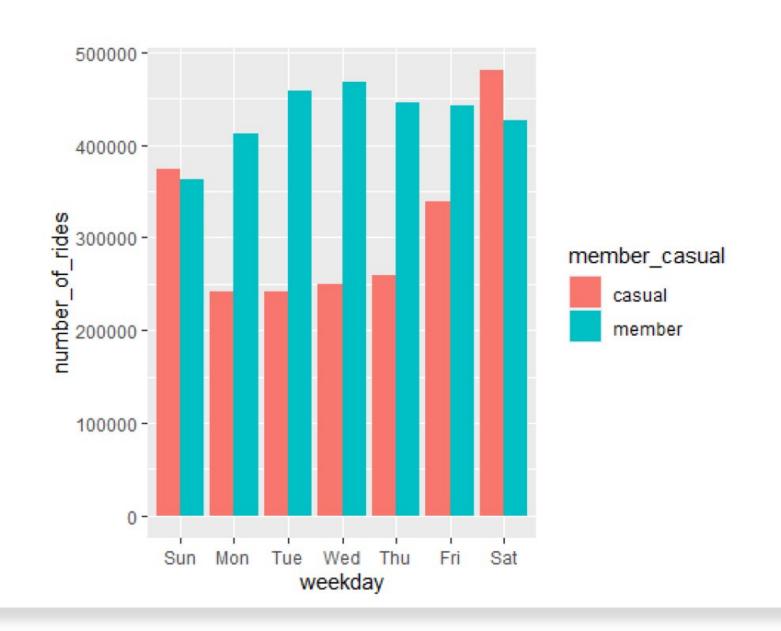
# Number of Rides per month

**Key finding 1:** Number of Rides per month



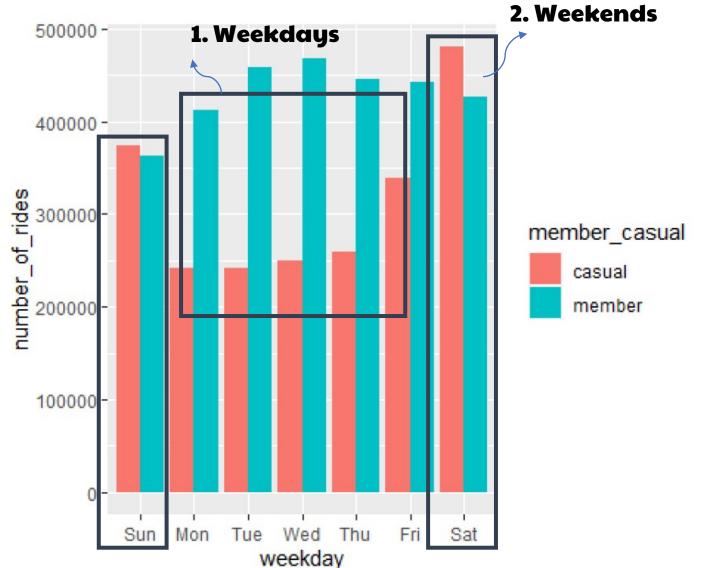
1. Annual members took nearly double rides than casual riders in Q1 and Q4 (Winter and Spring- cold season).

2. There was a significant rise in rides from both annual members and casual riders in Q2 and Q3 (Summer and Fallwarm season).



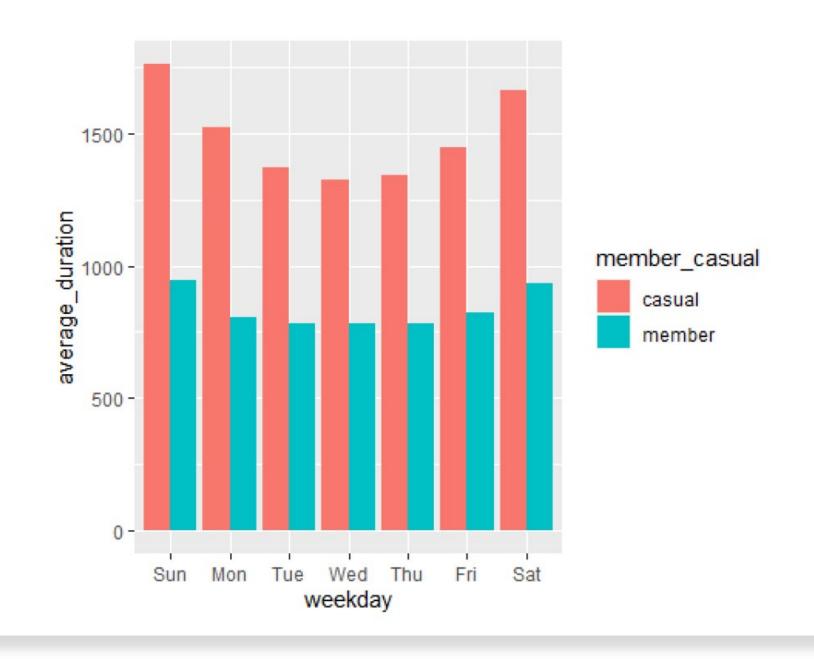
#### Number of Rides per day

#### Key finding 2: Number of Rides per day



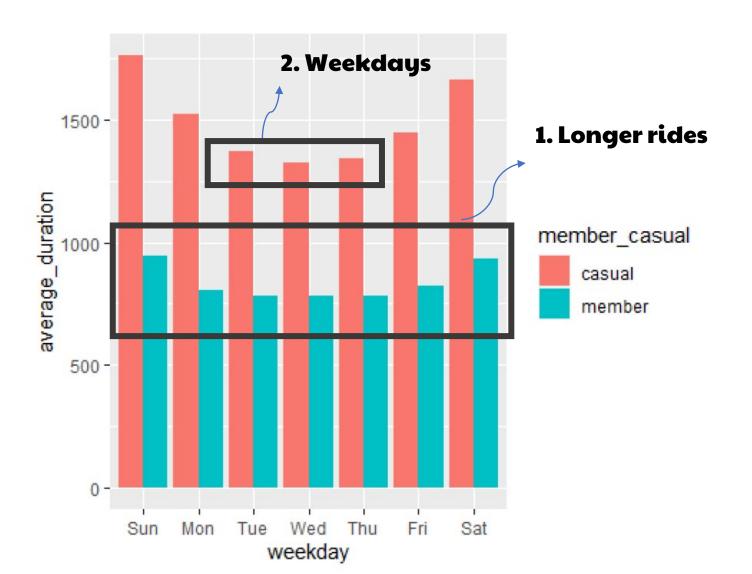
1. Annual members took nearly double rides than casual riders during weekdays.

2. There was a significant rise in rides from both annual members and casual riders on the weekends.



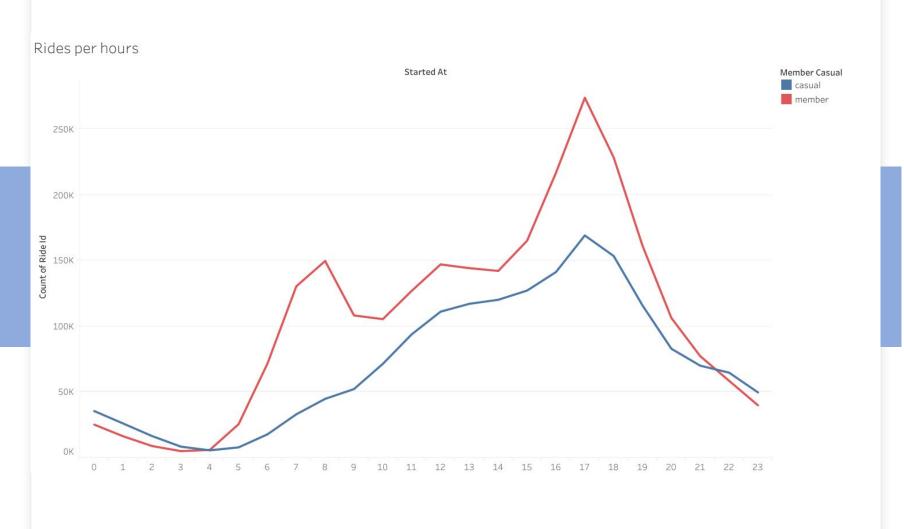
#### Average Ride duration per day

#### Key finding 3: Average Ride duration per day



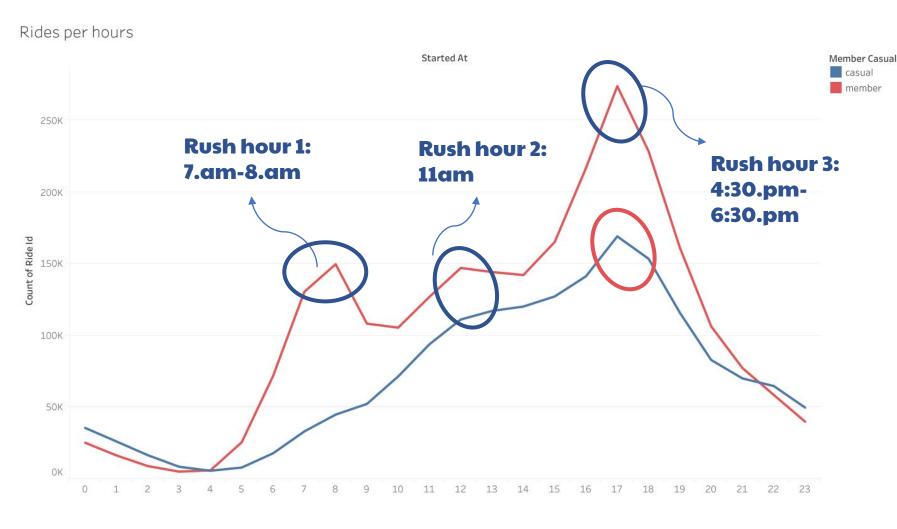
1. Casual riders took far longer rides than annual members.

2. Average duration was shorter during weekdays from both causual riders and annual members



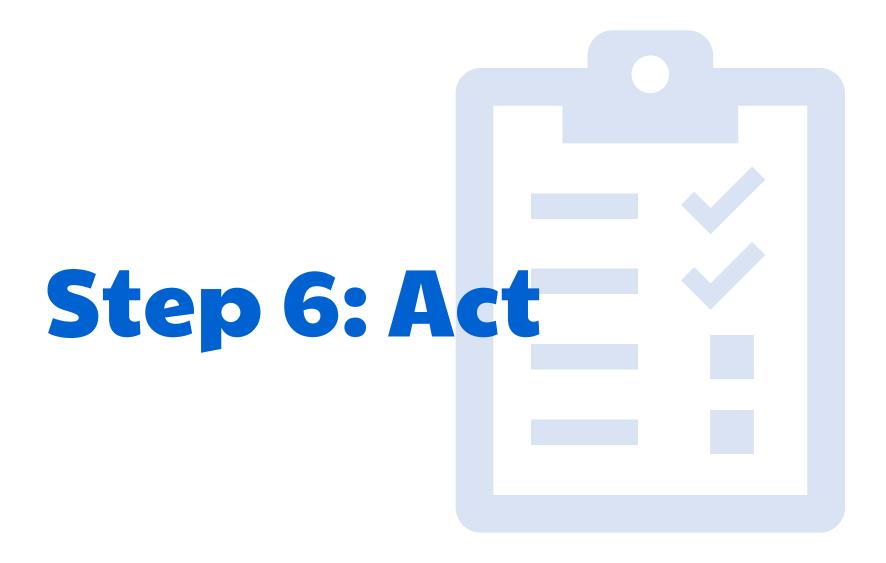
#### Number of Ride per hour

#### Key finding 4: Number of Ride per hour

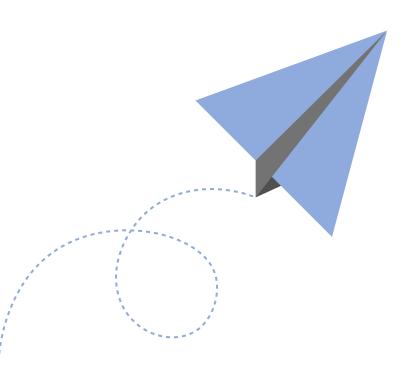


The number of rides from members peaks around the time that most people travel to and from work

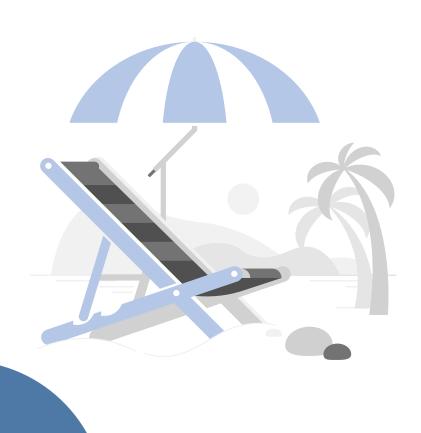
# Step 5: Share



# Recommendations for the Marketing plan



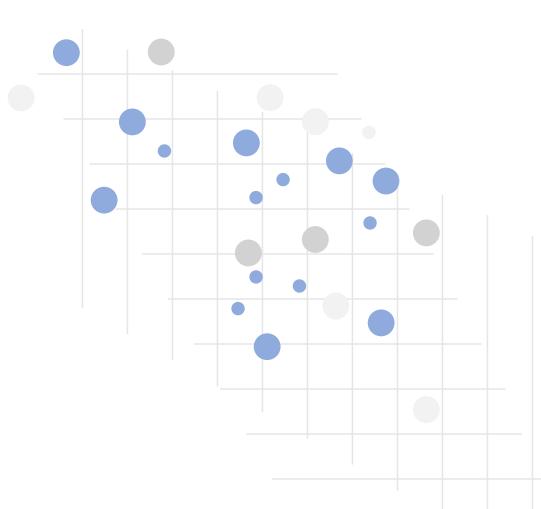
#### Recommendation 1:



Perform a Discount and Promotion campaign focused on Q2 and Q3 of the year (Summer and Fall)

#### **Recommendation 2:**

#### **MONDAY**



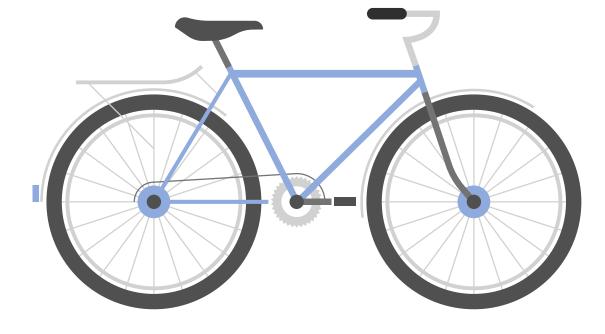
Perform a plan that casual riders will have a bonus of 30-40 minutes in the next ride so that the company will have more rides during the weekdays

FRIDAY

#### **Recommendation 3:**

Perform a new member discount campaign focused on casual riders who ride longer than 20 minutes

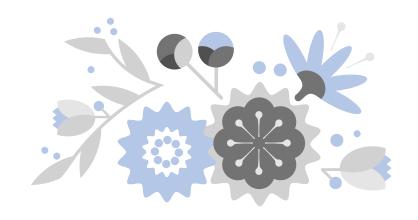
(1200 seconds) over the week



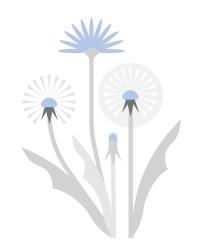
#### Recommendation 4:

Perform a Discount campaign during the Rush hour 3 (4:30.pm - 6:30.pm) for casual riders that will probably increase the number of riders





# hanks for watching!





#### Appendix



If you want to view the R markdown file, please click here



If you want to access the Tableau Public visualization, please click <a href="here">here</a>



If you have any further questions, please email me at <a href="https://ntri3274@gmail.com">ntri3274@gmail.com</a>