

Bike Trip Report

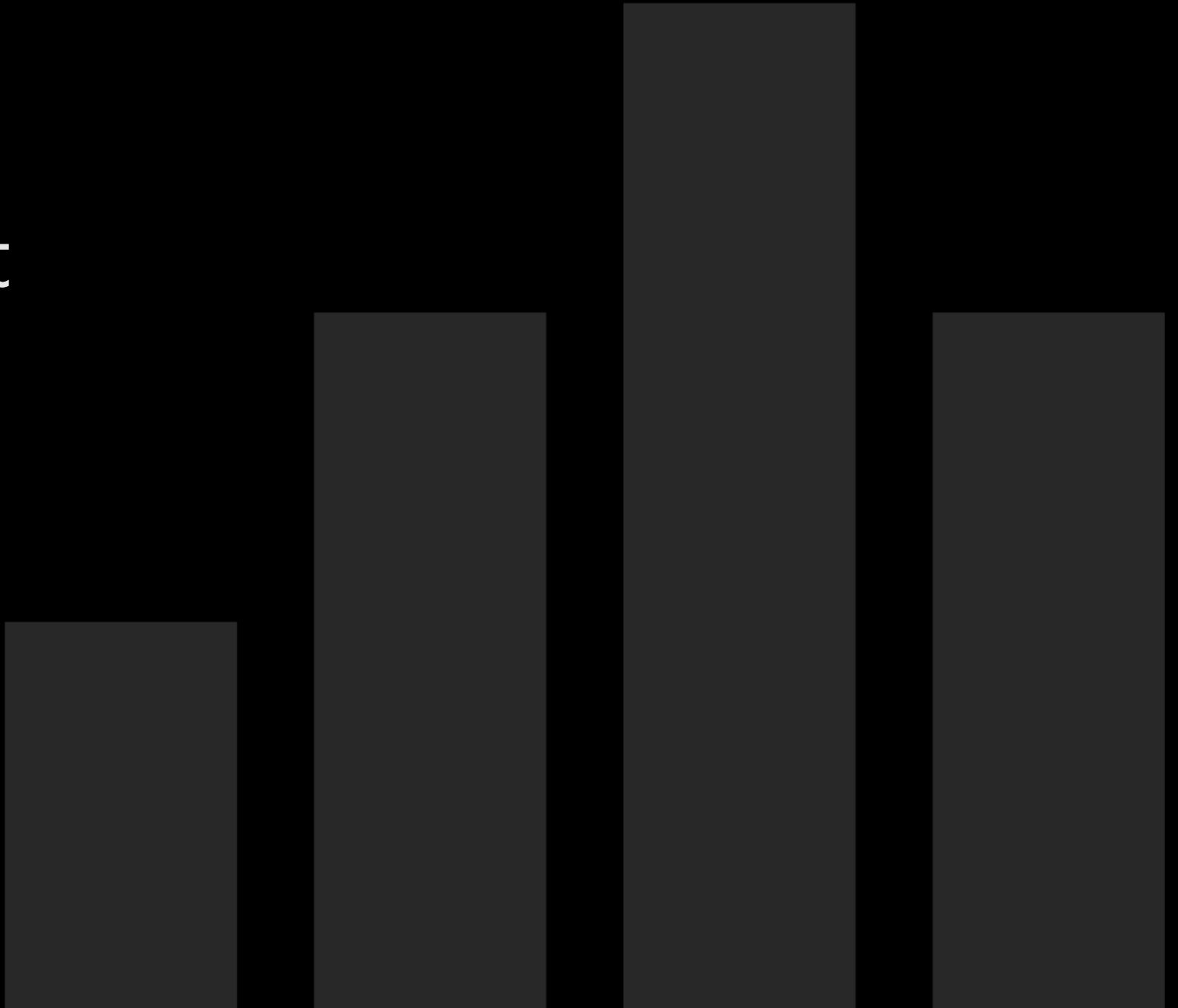
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Cyclistic Bike-Share Analysis Report

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Executive Summary

In this report, I analyze the usage patterns of Cyclistic's bike-share program to understand the differences between annual members and casual riders. The objective is to provide insights that will inform the development of a marketing strategy aimed at converting casual riders into annual members.

Introduction

Background and Objectives

Cyclistic is a bike-share company based in Chicago with the aim of maximizing annual memberships. The marketing team is interested in understanding how casual riders and annual members use Cyclistic bikes differently. This analysis will provide the foundation for a marketing strategy to convert casual riders into annual members.

Data Sources

For this analysis, we utilized Cyclistic's historical trip data, which is publicly available and contains valuable insights into customer behavior.

Data Preparation

Data Collection

I collected the historical trip data from [Cyclistic's database](#), ensuring that it is suitable for analysis.

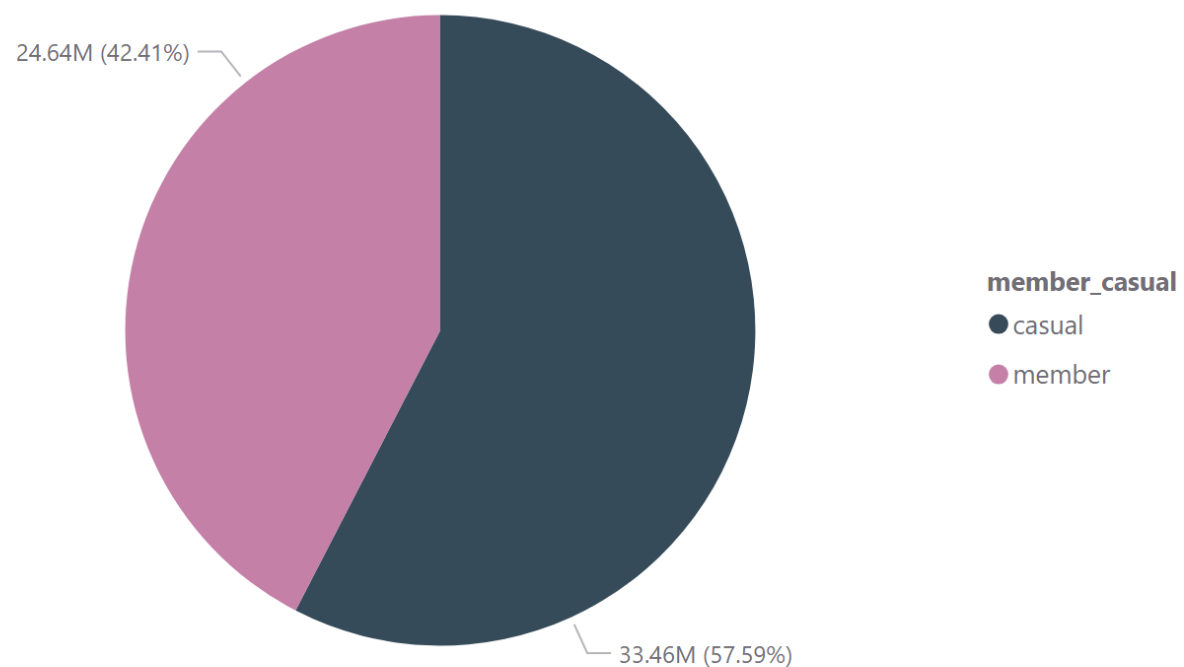
Data Organization

The data was structured in a way that allowed us to perform meaningful analysis and gain insights.

Data Credibility and Verification

We assessed the credibility of the data, addressed potential biases, and verified its integrity.

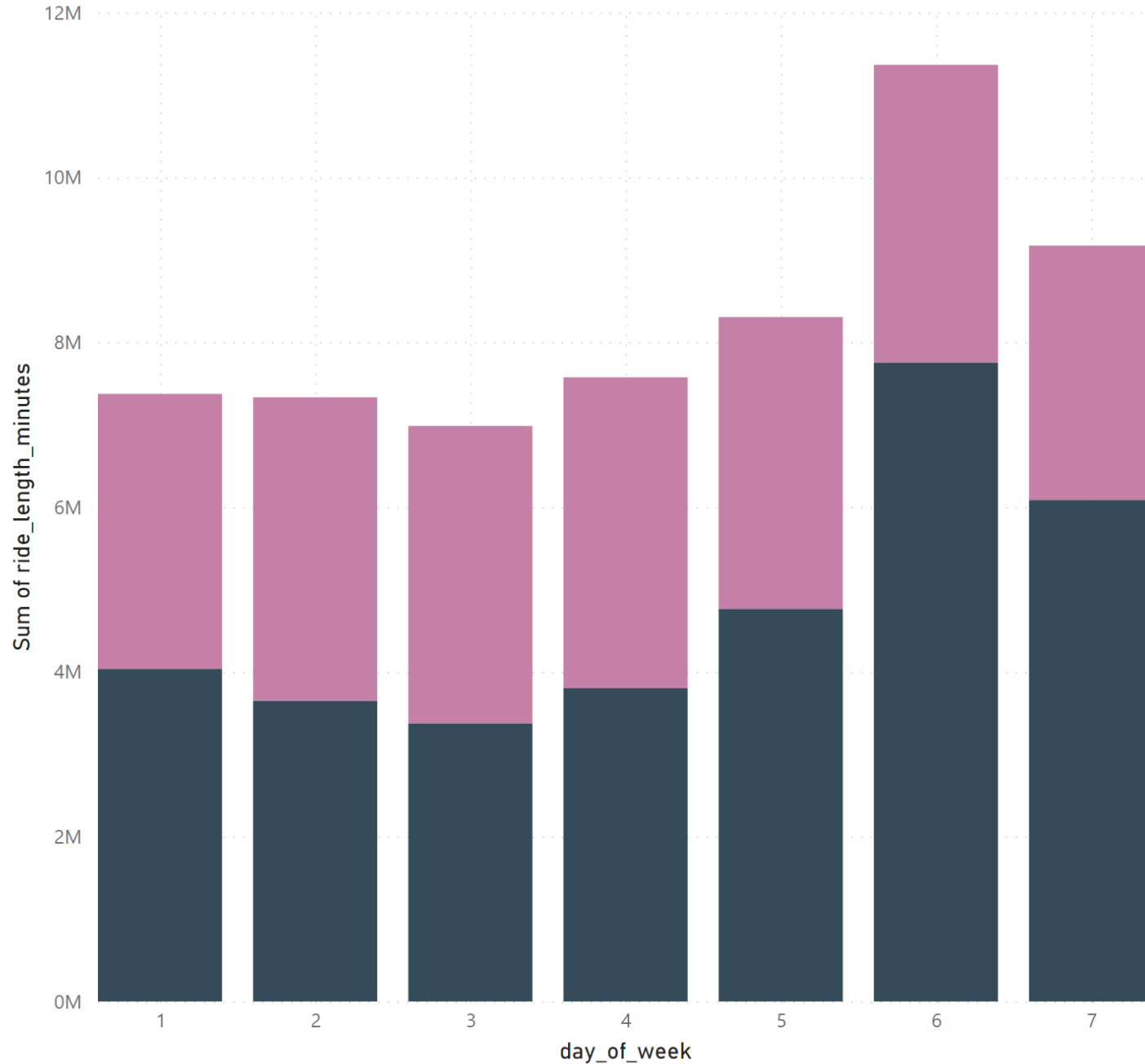
Sum of ride_length_minutes by member_casual



There are 33.46 million member and 24.64 million casual using the company.

Sum of ride_length_minutes by day_of_week and member_casual

member_casual ● casual ● member

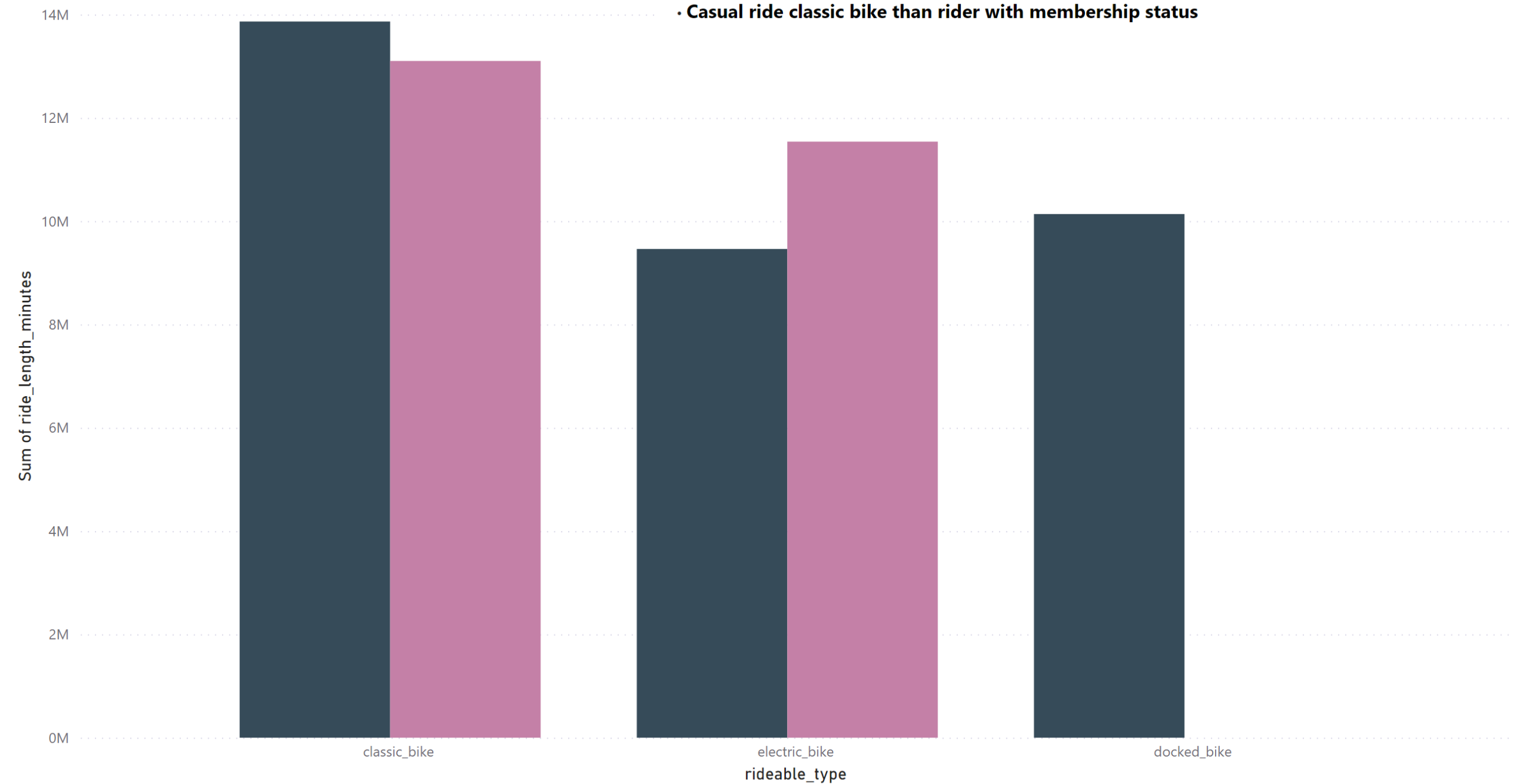


Casual seems to ride more on Friday than any other days of the week while Member seems to ride more on Wednesday

Sum of ride_length_minutes by rideable_type and member_casual

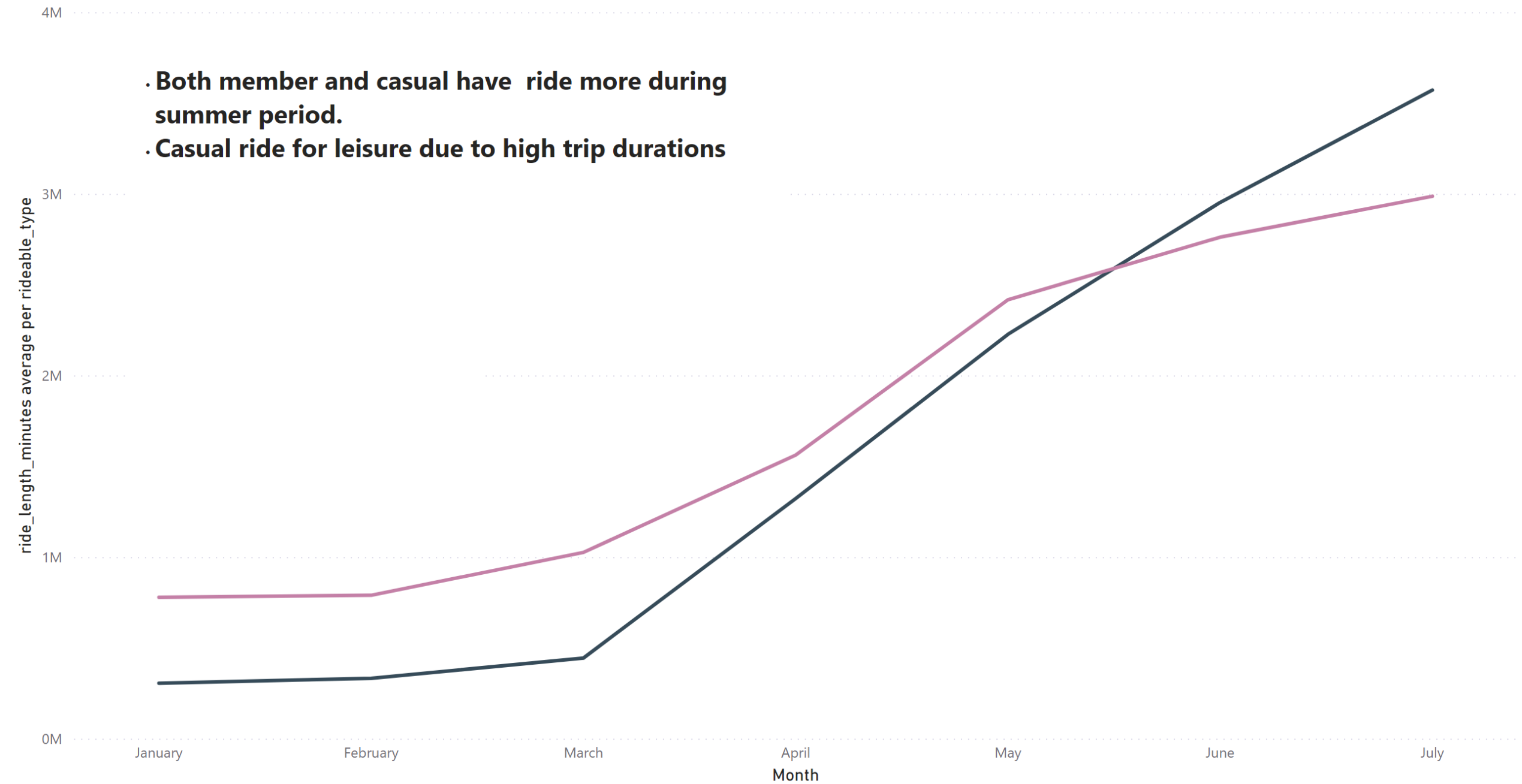
member_casual ● casual ● member

- Only Casual ride docked bike
- People with membership ride electric bike than casual
- Casual ride classic bike than rider with membership status



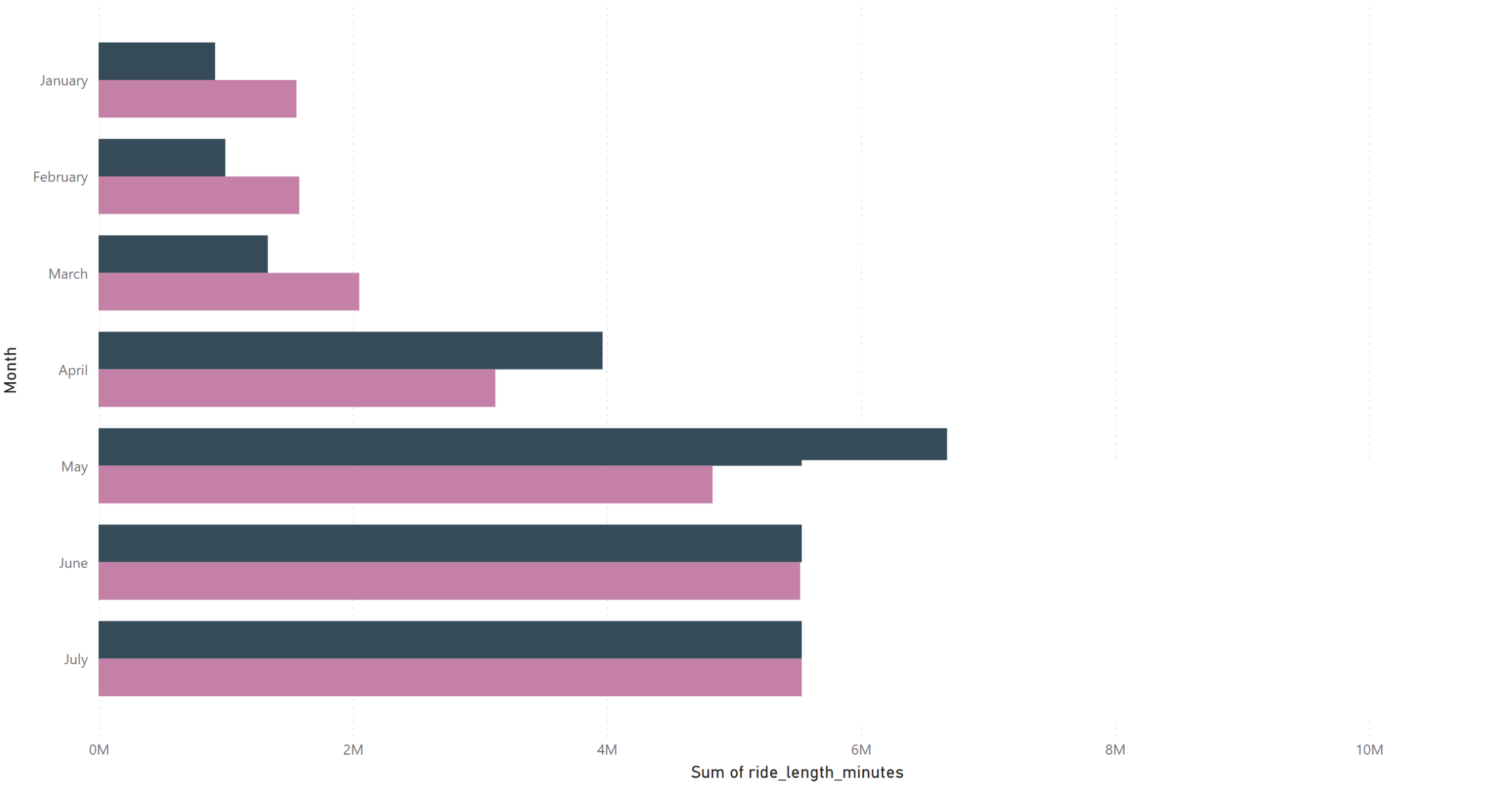
ride_length_minutes average per rideable_type by Month and member_casual

member_casual ● casual ● member



Sum of ride_length_minutes by Month and member_casual

member_casual ● casual ● member



KEY FINDINGS

- Casual riders outnumber annual members, indicating a larger potential customer base for conversion.
- Cyclistic experiences a surge in ridership during the summer months, presenting an opportunity for targeted marketing campaigns during this period.
- Casual riders tend to have longer trip durations compared to annual members, suggesting that they may use the service for leisure and extended rides.
- Casual riders predominantly use docked bikes, while annual members may prefer other bike types, such as electric bikes or classic bikes.
- Casual riders appear to prefer riding on Fridays, possibly indicating weekend leisure rides.
- Annual members show a preference for riding on Wednesdays, suggesting weekday commuting patterns.
- Annual members show a preference for electric bikes, which may align with their commuting needs and speed preferences.
- Casual riders tend to use classic bikes, which may cater to their leisurely riding style.



Marketing Strategies

- Utilize seasonal promotions to attract leisure riders during peak summer months, targeting casual riders with special offers.
- Create "Weekend Getaway" packages to cater to Friday riders and incentivize casual riders to become members.
- Enhance the bike-type experience by highlighting the benefits of different bikes, encouraging electric bike adoption, and customizing routes for classic bike enthusiasts.

Tools

Python: Cleaning and Preprocessing

Power Bi: Visualisation

- I joined seven monthly data together
- I converted the started date to DateTime format
- I calculated the trip duration for each member
- I created a column for the day of the week (started from Sunday as 1)
- I performed a descriptive analysis

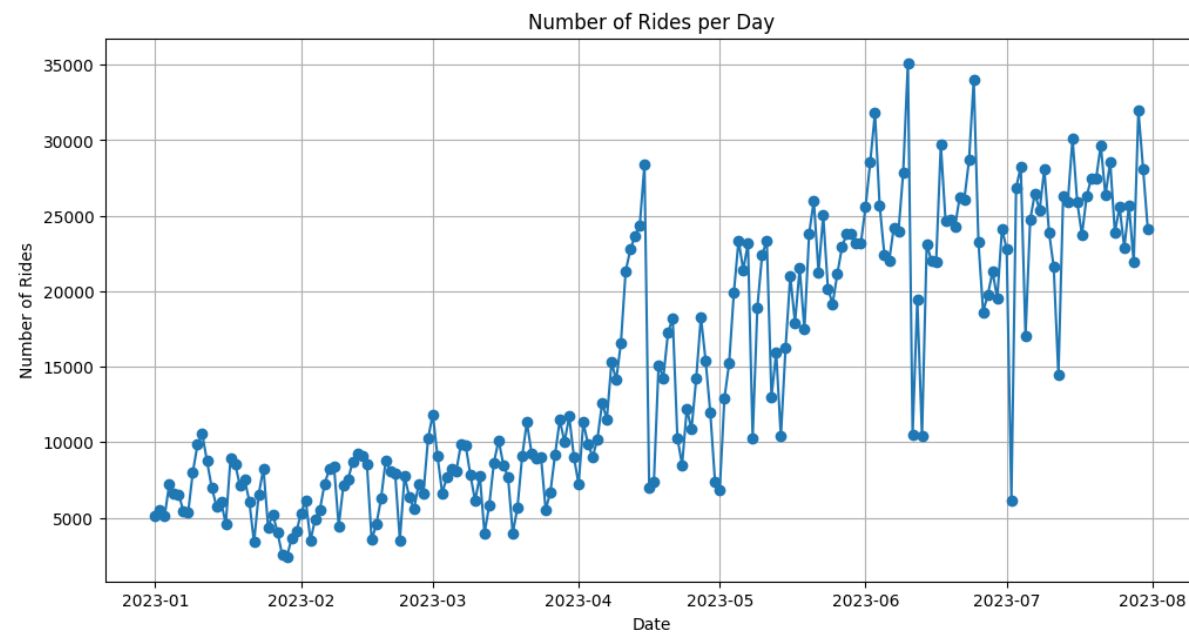
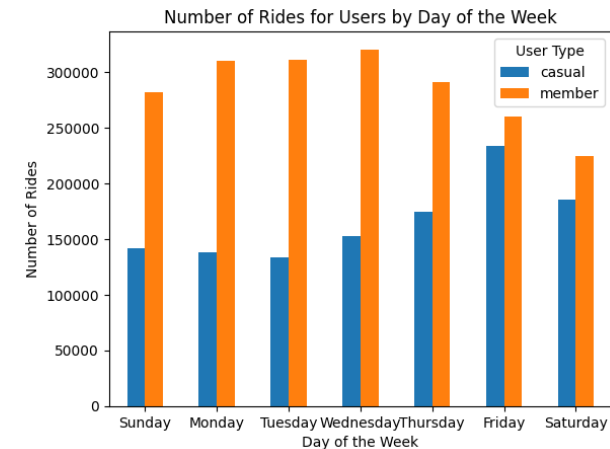
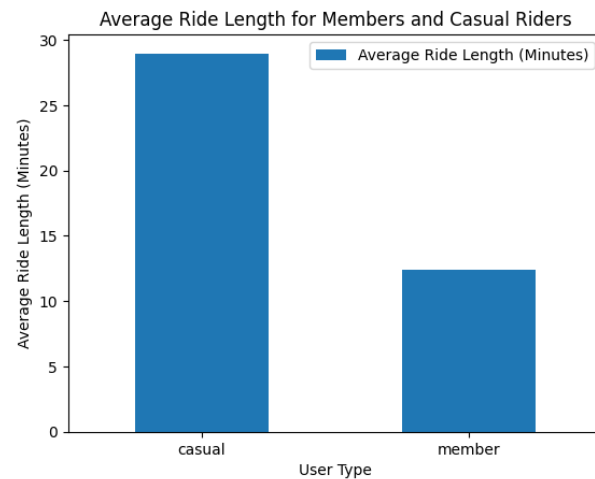
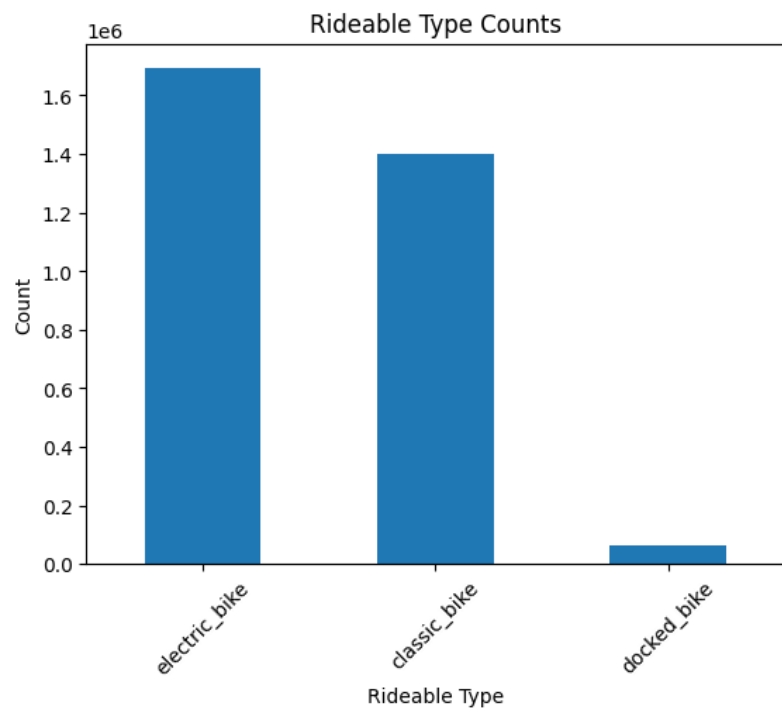
Here is the link to [Jupyter Notebook](#) files on my Github Profile



Conclusion

In conclusion, my analysis provides valuable insights into the differences between annual members and casual riders. Making use of my recommendations and marketing insights will help Cyclistic take significant steps toward achieving its goal of maximizing annual memberships.

Appendix





Thank you