



# Bay Wheels bicycle

T5 Bootcamp Data Science Project  
Hadeel Altamimi



# CONTENTS OF THIS PRESENTATION

Here's what you'll find in this presentation:

1. **What** is?
2. Project **Goal**.
3. **Dataset** Information.
4. The **Tool** that I used.
5. **Data Processing**.
6. **Data Analysis** Result .
7. **Modeling** .



# WHAT ?

My project is about bicycles rides provided by Bay Area Motivate from the Bay Wheels bicycle sharing service.



Get insights  
user's characteristics  
will help in  
'understanding customers'  
'developing the service'



GOAL

# DATASET

**23 columns and 519699 rows**

It's contains information about bicycles rides provided by Bay Area Motivate from the Bay Wheels bicycle sharing service.

# TOOLS

01

**Pandas, Numpy**  
for discovering the data

02

**K-Mean**  
clustering algorithm

03

**Matplotlib , Seaborn**  
for visualization

04

**Logestic Regression**  
Modeling



# Data Processing

1

Data Assessing

2

Data Cleaning

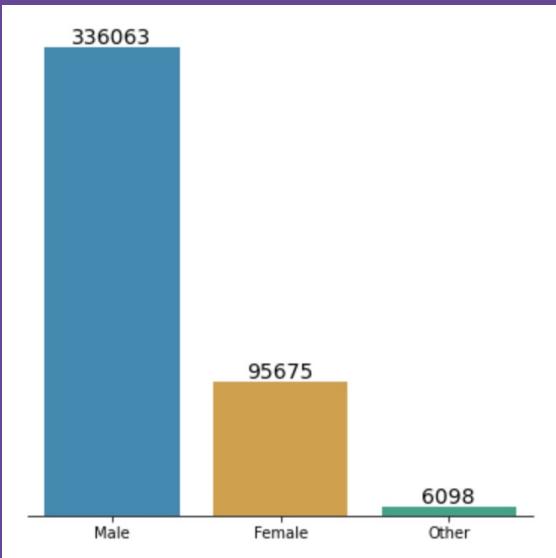
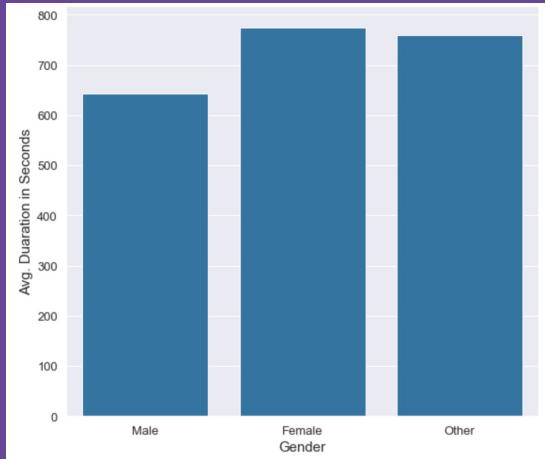
3

Data Analysis



# Data Analysis Result

# Gender , Duration



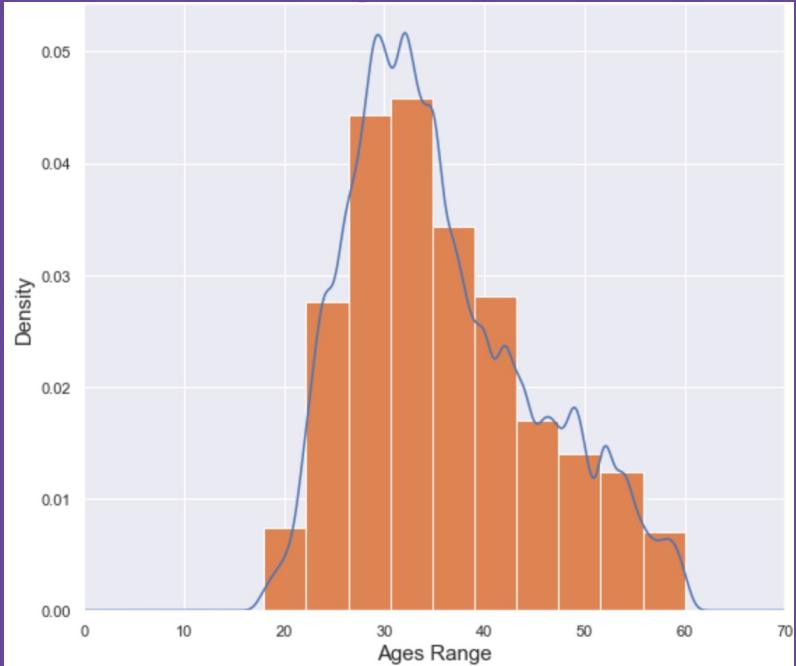
1

The major users are males

2

females and others have a higher duration average than the males.

# Age



1  
younger people have  
higher duration  
  
Than older people

# User Type , Weekday

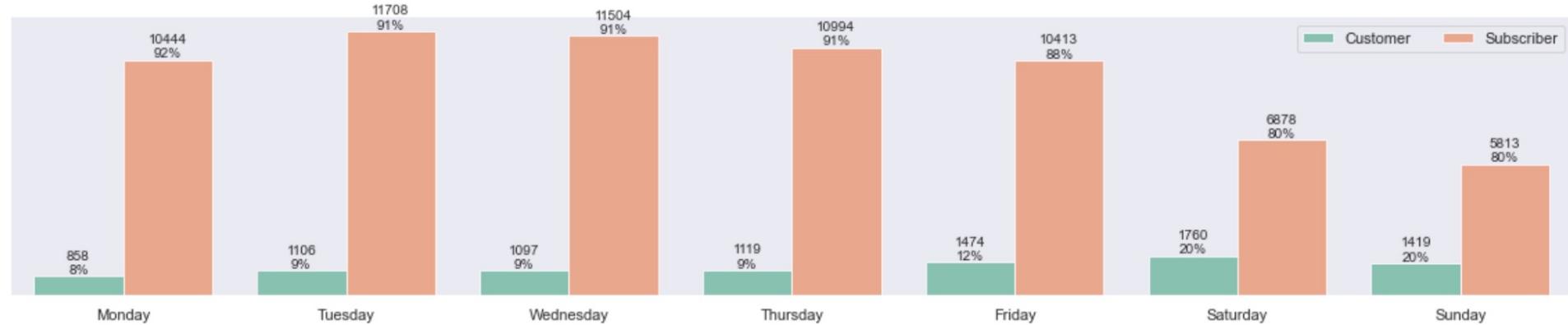
1

Subscribers **high** in Weekday

Customers **high** in Weekend

2

**subscribers** use the bike  
as commute and the  
**customers** use the bike  
for leisure



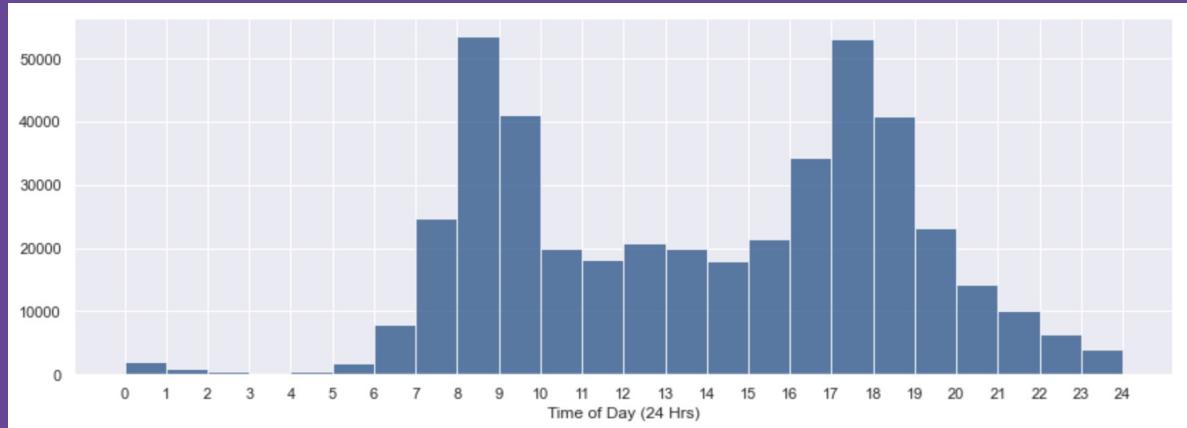
# Time

1

traffic during the day around  
8-9am and 5-6pm

2

rush hours , people go to  
and leave from work



# Month



1

October have **high** usage

2

This probably due to  
weather reasons

# Modeling

# Logestic Regression

**Why ?**

easier to implement, interpret,  
and very efficient to train.

very fast at classifying unknown  
records.





A graphic design featuring a large, solid purple circle centered on a pink background. Overlaid on this circle is the text "THANK YOU" in a bold, white, sans-serif font. The background is decorated with abstract shapes: a light blue circle in the top left, a dark purple blob in the top right, and several thin, wavy blue lines forming concentric circles in the bottom right and top left corners.

THANK  
YOU