



PROJECT

Analyze Bay Area Bike Share Data
A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

CODE REVIEW

NOTES

SHARE YOUR ACCOMPLISHMENT!  

Meets Specifications

Well done! Congratulations on passing this project! This is a good start for your nanodegree.

Examine Pre-Existing BABS Visualizations

At least two questions are listed that can be answered with data.

Good job! You have raised up couples of questions from the dataset. This is the first step of data analysis.

A thoughtful and thorough examination of at least two visualizations are provided.

At least one question from Q1 is attempted to be answered, or a logical explanation is provided as to why the question cannot be answered with the visualizations provided.

Great! Your response shows that you have thoroughly examined the visualizations in Tyler's report.

Conduct Your Own Analysis

Data wrangling was performed correctly, resulting in the code being correctly printed & correct count message displayed.

The coding section is perfect!

The correct trip duration and number of trips are listed.

Correct!

Two visualizations are created and insights clearly and coherently described.

Your visualizations are good.

But for the visualization of weekdays, the order is from A-Z, which is not logically meaningful. You could use the following code to reorder it.

```
# create a list of weekdays
weekdays = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']
# use a dictionary to map names to integers
mapping = {day: i for i, day in enumerate(weekdays)}
# result you will get: {'Monday': 0, 'Tuesday': 1, 'Friday': 4, 'Wednesday': 2, 'Thursday': 3, 'Sunday': 6, 'Saturday': 5} dictionary is not ordered
# create a key to store weekday integers
```

```
key = trip_data['weekday'].map(mapping)
# sort the data using the key
trip_data = trip_data.iloc[key.argsort()]
```

One scenario where techniques of data science could be used was described, along with a potential application within that field.

Animals psychology is an extremely interesting topic. You could make use of data science to conduct some valuable research. :)

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