**MindSumo Bikeshare Data Challenge Plan**

**Challenge:**

To solve this challenge, build a web app that provides:

* Data Visuals: Display or graph 3 metrics or trends from the data set that are interesting to you.
* Which start/stop stations are most popular?
* What is the average distance traveled?
* How many riders include bike sharing as a regular part of their commute?

(Optional) Bonus features you may want to include to stand out:

* How does ridership change with seasons? Types of passes used, trip duration, etc
* Is there a net change of bikes over the course of a day? If so, when and where should bikes be transported in order to make sure bikes match travel patterns?
* What is the breakdown of Trip Route Category-Passholder type combinations? What might make a particular combination more popular?

**Plan:**

-Prior Experience (Android Apps, Excel analytics, SQL commands), very little front-end JS experience.

Web-App

* Use GitHub Pages
  + Hosted directly on website
  + Linked directly to repository (Can push and changes will reflect immediately)

Data Visualization

* Friend suggested D3
  + Is used to display data in special charts/graphs from data sets
  + Ex. An HTML Table (or smooth bar chart with animations) can be generated from an array of numbers
  + Looks visually appealing and modernistic from examples
* Due to time constraint and learning curve (no prior front-end experience), find a quicker way to visualize data and display on website.

Steps

* Deploy a basic live website on Github Pages.
* Display a basic chart using my own simple sample data.
* Display a basic chart from a segment of give bikeshare data.
* Attempt to answer challenge questions
* Work on bonus features (time-permitting)