

## Google Data Analytics Capstone Project

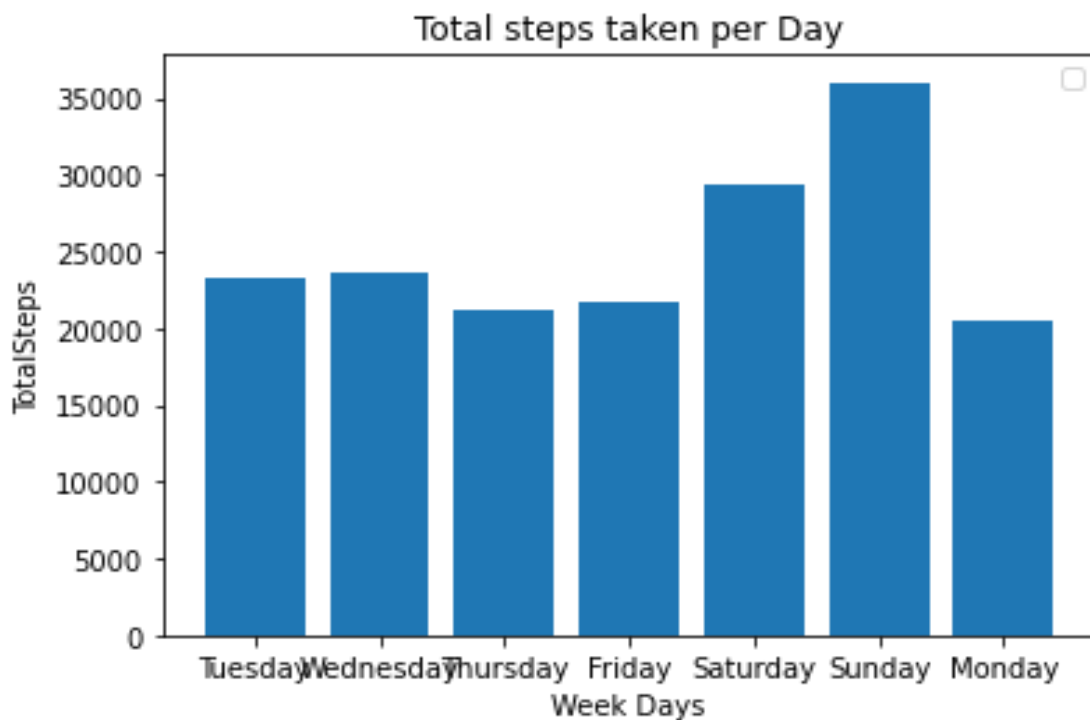
### Data Cleaning:

- Activity\_Date column is not in a consistent format so, very first task in cleaning the data will be changing the date format from “MM/DD/YYYY” to “DD-MM-YYYY”. For that we will be using IF, DATE, VALUE, MID, RIGHT, LEFT functions of excel.  
`=IF(ISNUMBER(B2),B2,DATE(VALUE(RIGHT(B2,4)),VALUE(LEFT(B2,1)),VALUE(MID(B2,3,2))))`

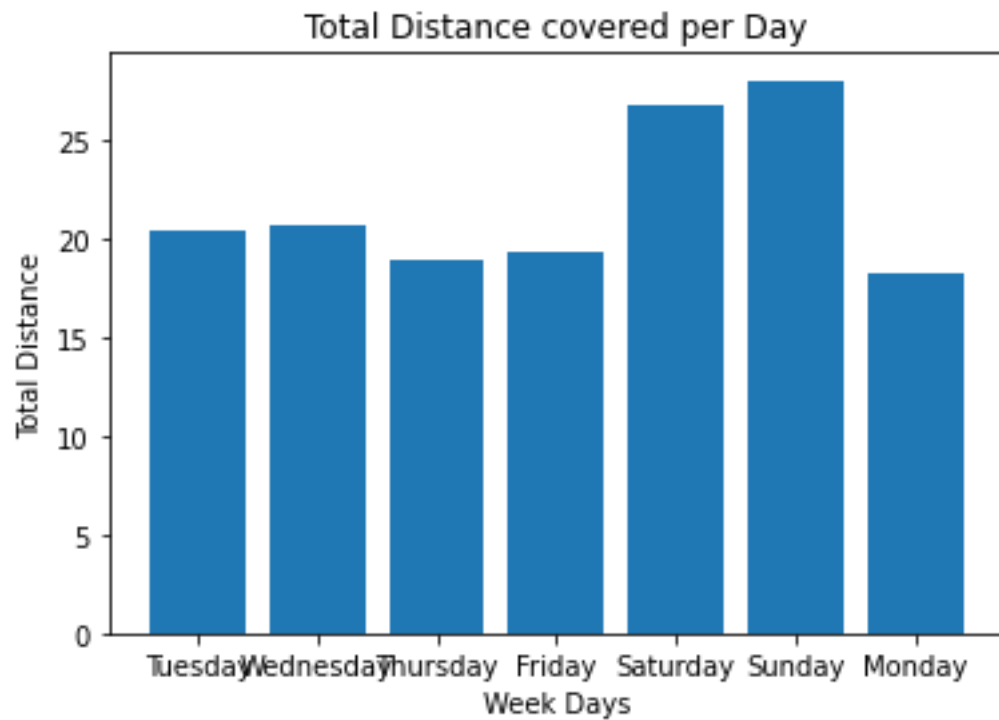
### Data Analysis:

- As the data is cleaned, we will be using pandas, matplotlib to format the data and plot it.
- Below are the analysed Bar chart and scatter plots with respective values on their axis.
- Weekdays are extracted from the date column from the data given and a bar graph of total number of steps taken on each week day can be seen here.

**We can observe most of the FitBit users are walking more number of steps on the weekends.**



- In the same pattern we can analyse total distance travelled with weekdays.  
**Users can be observed taking longer distances on weekends.**



- Below graph is the scatterplot, plotted between Calories burned for every hour on the device.



- Below graph is the scatterplot, plotted between Calories burned for every step taken on the device.

