



أكاديمية سدايا
SDAIA Academy

BLOOD DONATION CAMPAIGN

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Data Used

Turnstile Data

Key/Resources

Field Description:

▶ Prior to 10/18/14

▶ Current

▶ Remote Unit/Control Area/Station Name Key

Data Files

Saturday, October 09, 2021
Saturday, October 02, 2021
Saturday, September 25, 2021
Saturday, September 18, 2021
Saturday, September 11, 2021
Saturday, September 04, 2021
Saturday, August 28, 2021
Saturday, August 21, 2021
Saturday, August 14, 2021
Saturday, August 07, 2021
Saturday, July 31, 2021
Saturday, July 24, 2021
Saturday, July 17, 2021
Saturday, July 10, 2021
Saturday, July 03, 2021
Saturday, June 26, 2021
Saturday, June 19, 2021
Saturday, June 12, 2021
Saturday, June 05, 2021
Saturday, May 29, 2021
Saturday, May 22, 2021
Saturday, May 15, 2021
Saturday, May 08, 2021

I will set three months out of 2021, I suppose donating is better at busy stations or at peak times



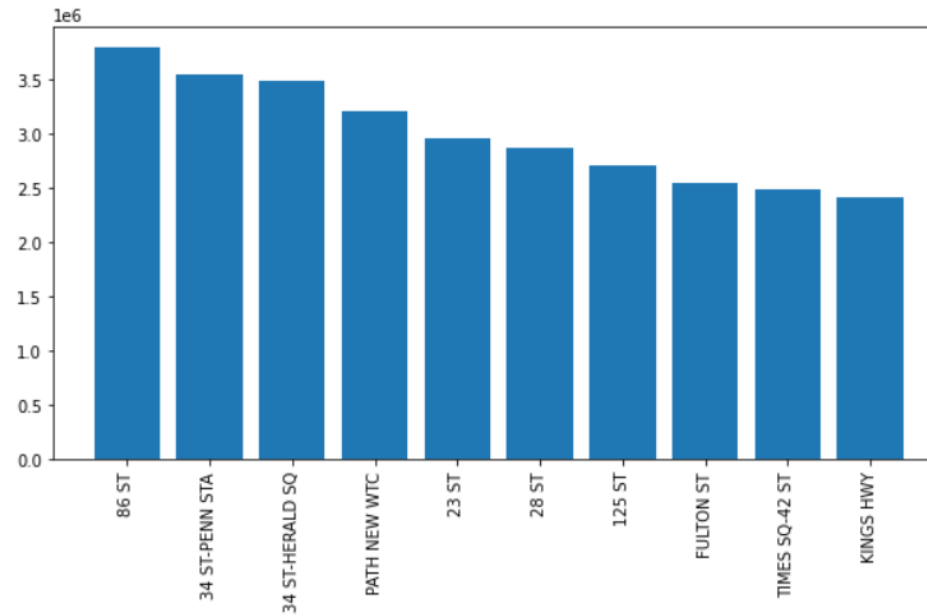
We have to identify the busiest stations

We need to increase the number of donors at Tarin stations .Because there are different times the train stops . So I analyzed the available data to find out the (congestion) Stations.

Here are the stations (top ten) for daily entry

In [56]: *#Viewing top ten stations*

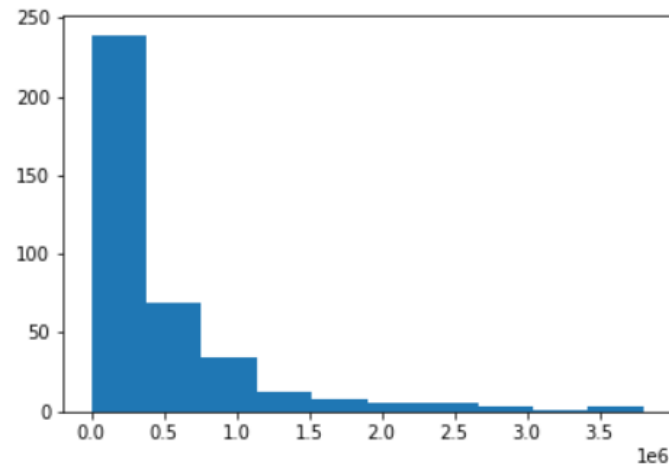
```
plt.figure(figsize=(10,5))  
plt.bar(x=station_totals['STATION'][:10], height=station_totals['DAILY_ENTRIES'][:10])  
plt.xticks(rotation=90);
```



Below is a display of the number of (daily) passengers at most stations

```
plt.hist(station_totals['DAILY_ENTRIES'])
```

```
Out[55]: (array([239., 69., 34., 12., 8., 5., 5., 3., 1., 3.]),  
          array([3.5000000e+01, 3.8054040e+05, 7.6104580e+05, 1.1415512e+06,  
                1.5220566e+06, 1.9025620e+06, 2.2830674e+06, 2.6635728e+06,  
                3.0440782e+06, 3.4245836e+06, 3.8050890e+06]),  
          <BarContainer object of 10 artists>)
```





The most appropriate solution

Is that the donation is better in crowded stations or during peak times