Parking Recommendation System

Problem :

NYC car owning population

Own Car
25.0%

Doesn't own car
75.0%
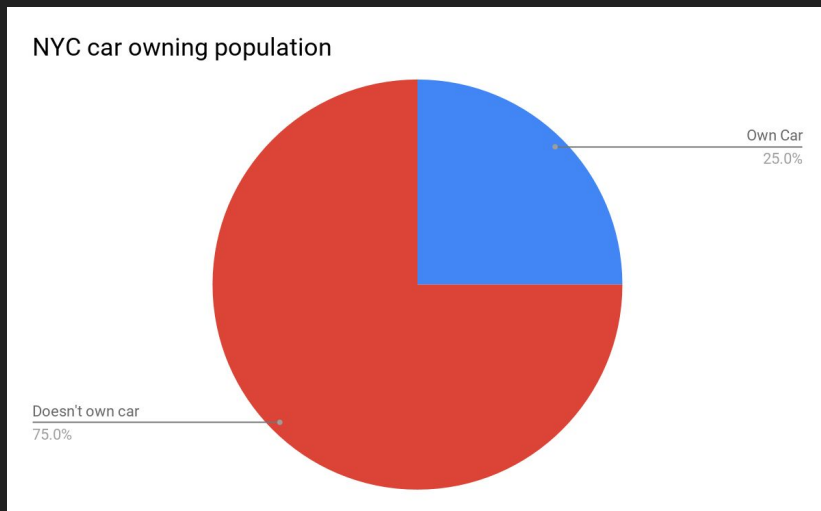
$545
millions
paid in parking tickets
(in 2016)

Solution :

" A system that help citizens be aware of the violations that can be made by them and also help them find an appropriate street parking based on the day, time of the day and location . "
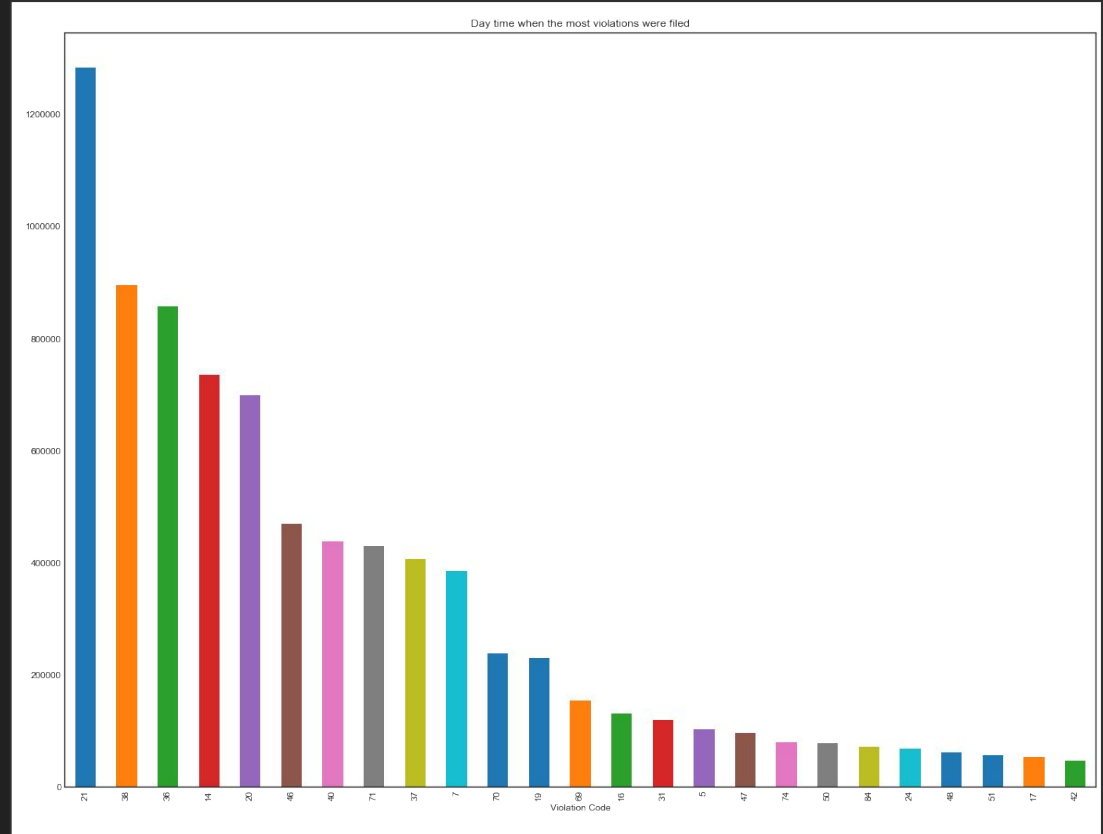
Data :

- **1st Dataset : 1.96 GB 8.64Mn Rows, 43 Columns**
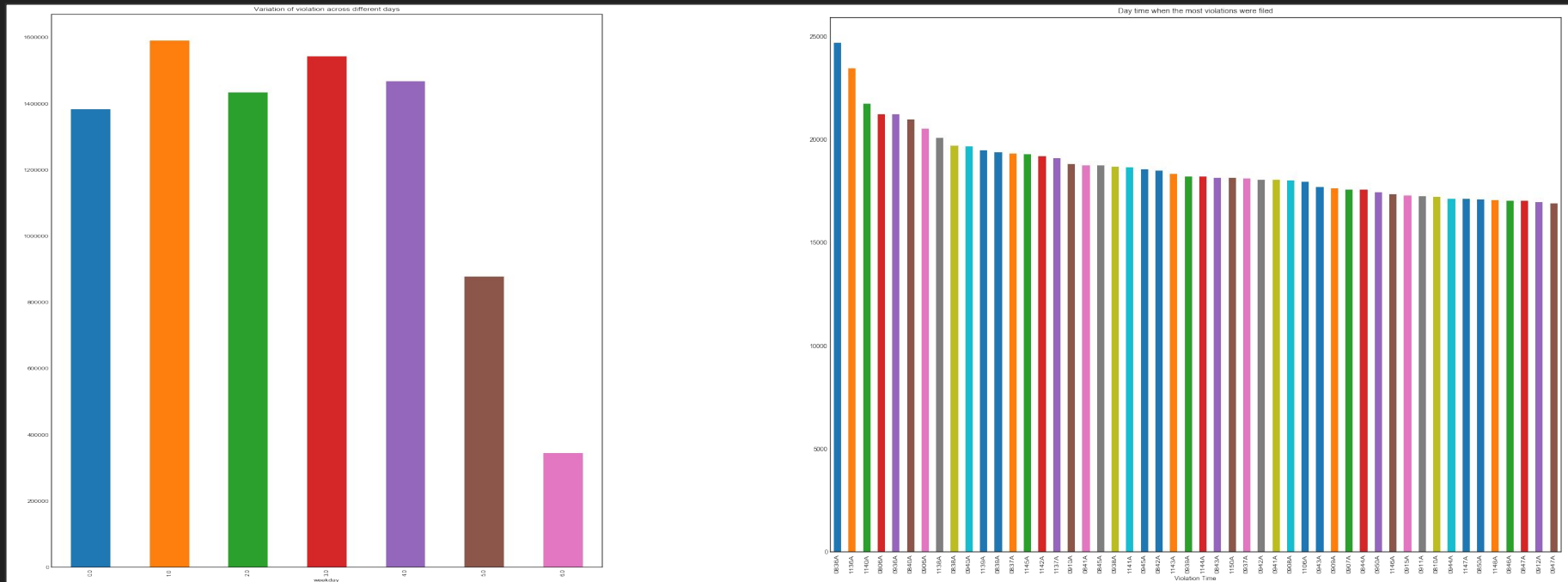
- **2nd Dataset : 7.8 GB 26.9Mn Rows, 19 Columns**

Some Exploration:

Most Common Violations (in order):

1. NO PARKING-STREET CLEANING
2. FAIL TO DISPLAY MUNI METER RECEIPT
3. SCHOOL ZONE SPEED VIOLATION
4. NO STANDING-DAY/TIME LIMITS
5. NO PARKING-DAY/TIME LIMITS

Day time when the most violations were filed

Some Exploration: (Plotting Days and Time for violations occurred)

" *Most violations are filed on Tuesdays and Thursdays with most occurring between 8am - 9am and 11am - 12pm* "

Goal :

" Using Machine Learning algorithms to predict the kind of violations that can done by users based on time, day and location and help them avoid the unnecessary parking tickets "