task

May 10, 2023

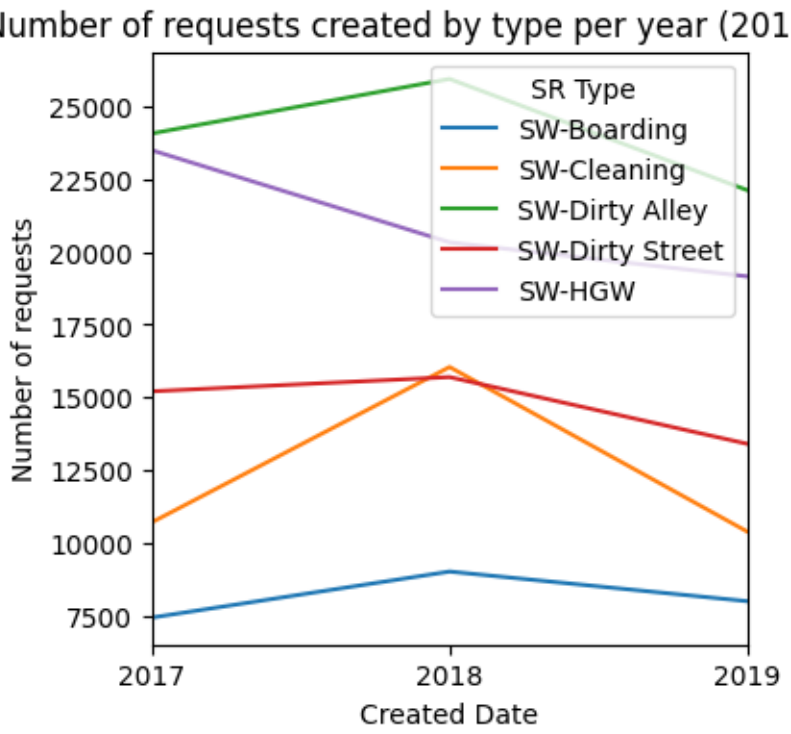
1 Baltimore Data Fellow Task

1.1 Main Questions

Filtering as directed in the instructions

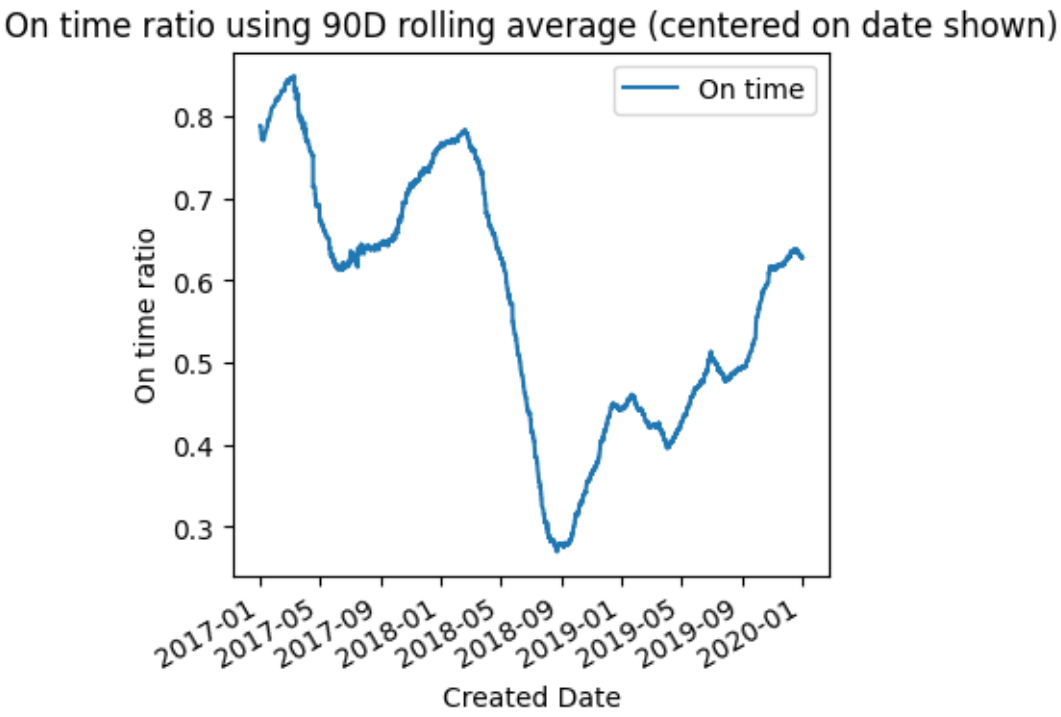
1.1.1 For each type of service request, how many service requests were created each year from 2017-2019?

```
SR Type       SW-Boarding      SW-Cleaning      SW-Dirty Alley
Created Date
2017                  7445            10715            24065  \
2018                  9025            16047            25936
2019                  8007            10395            22117

SR Type       SW-Dirty Street  SW-HGW
Created Date
2017                 15212            23488
2018                 15700            20327
2019                 13409            19157

<Axes: title={'center': 'Number of requests created by type per year
(2017-2019)'}, xlabel='Created Date', ylabel='Number of requests'>
```



1.1.2 How did the on-time % change over time? Please use a rolling 90 day average.

```
<Axes: title={'center': 'On time ratio using 90D rolling average (centered on
date shown)'}, xlabel='Created Date', ylabel='On time ratio'>
```



1.1.3 What % of service requests created in 2019 were completed past the due date?

```
0.5107888075528494
```

1.1.4 Using the information calculated above and other information from the dataset, can you provide evidence to determine if service requests created in 2019 are being completed equitably across the city?