

Boston crimes data analysis

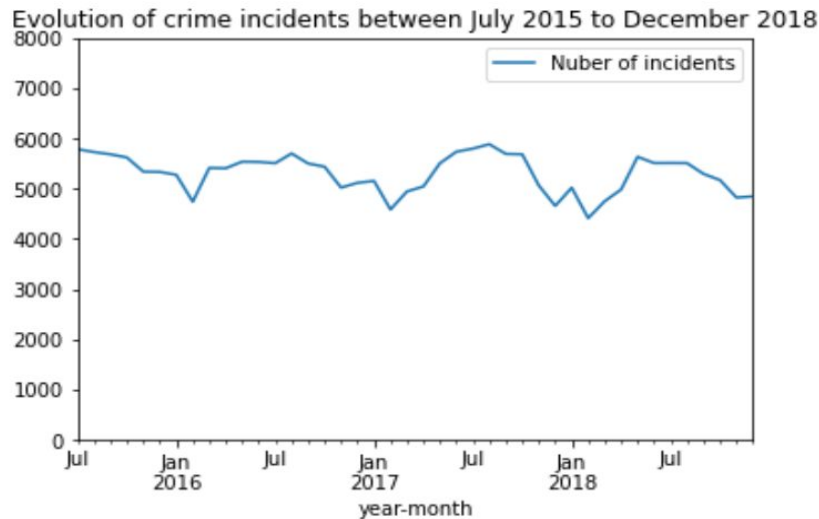
by The Locomotive





Crime dataset overview

- We are using data listing incidents from 15th June 2015 to end of 2018.
- More than 206 k distinct incidents are listed in this dataset



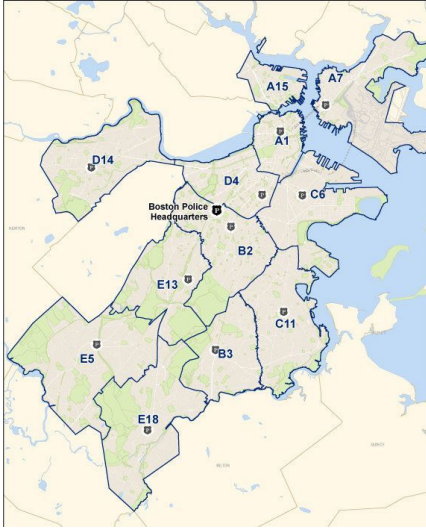
- We notice no real trend over this period, but a seasonality effect (crime peaks during summer)



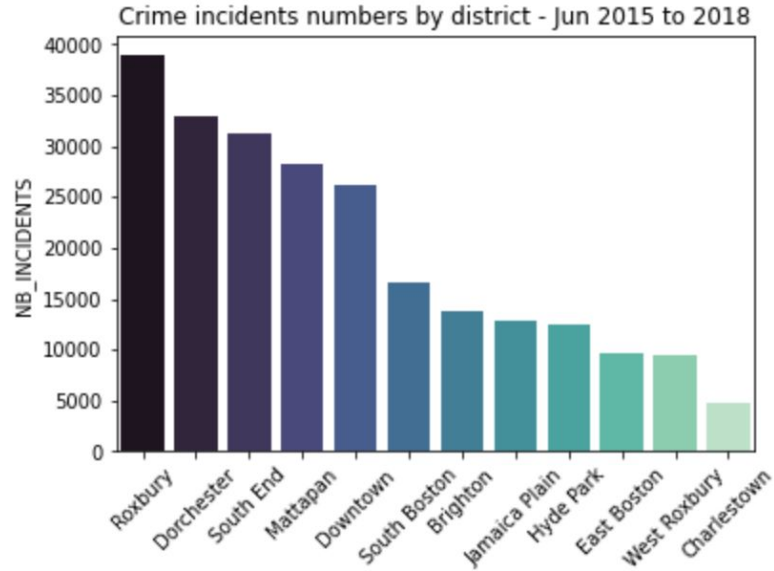
Related economics indicators

- We crossed incidents data with socio-economics statistics shared by the Economics Department of Boston.
- After investigating this data, we can conclude that the main correlations are found with :
 - ❖ the percentage of residents having moved from abroad or from another US state over the last year.
 - ❖ the share of families with a married couple.

District analysis



Police districts map



We can notice strong discrepancies (Roxbury having the maximum number of incidents, despite Boston police headquarters being located there (district B2 on the map))



Conclusion



- Based on this preliminary analysis, we can issue a few recommendations :
 - Considering crime seasonality : increase police forces and presence during summer
 - Considering socio-economic indicators : a strong emphasis on family and foreigner integration policies would result in significant crime decrease as these are the main factors statistically correlated to crime.
 - Considering crime discrepancies among Boston districts : reinforce efforts in districts, maybe by allocating some resources from quieter districts.