Advisory mission for the Boston municipal authorities

Antonenko Arina

Objective:

Detection of data-based insights on criminality in Boston

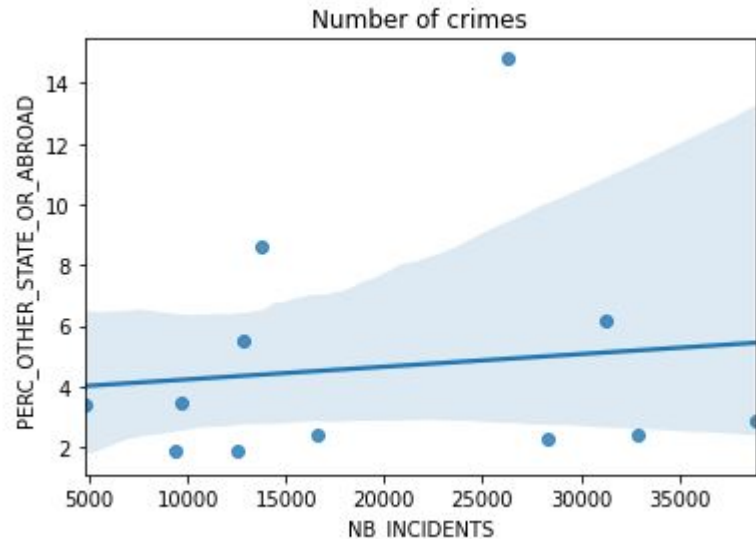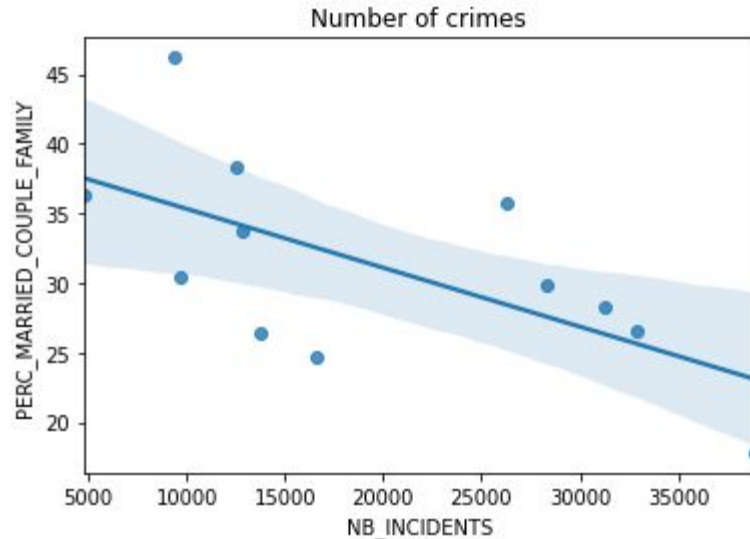based on 3 available datasets:

1. Districts
2. Indicators
3. Incident reports

Factors possibly influencing the number of crimes:

- Median age
- percentage of 30-34 years old;
- share of families with a married couple;
- percentage of residents having moved from abroad or from another US state over the last year
- percentage of residents having stopped their studies before getting a high school degree
- percentage of college graduates

Significant effect of 2 factors:

1. Share of families with a married couple (p=0.004) correlates negatively with the number of crimes
2. Percentage of residents having moved from abroad or from another US state over the last year (p=0.020) correlates positively with the number of crimes

Further analysis

Among all police districts:

1) Larceny and vandalism remains the most frequent crime
2) Disputes remain the most rare one