

Key Questions:

- Are there certain problematic landlords/ management companies?
- Are there common features of certain buildings (same build year, etc)?
- What neighborhoods/ communities are affected most?
- What kinds of building complaints are people making around the city?

Early Insights

- Collect and pre-process a preliminary batch of data
- Perform a preliminary analysis of the data
- What questions can and can't be answered with the data you have. What other data do you need and how will you get access to it?
- Submit all of the following information (code, notebooks, answers to questions) as a PR to your team's branch on GitHub. (Add your TPM and TA as reviewers!)

Timeframe: ~5 years

Questions Answered with Data:

What neighborhoods/ communities are affected most?

BUILDING AND PROPERTY VIOLATIONS.csv (data dates back to earliest entry: 2000)

- After examining the prevalence of certain neighborhoods in Boston that have building violations, and parsing through our sample of neighborhoods (BUILDING AND PROPERTY VIOLATIONS dataset), we noticed that Dorchester, Boston, East Boston, and Roxbury are the top 4 neighborhoods with building violations.
 - Dorchester: 4282
 - Boston: 2601
 - East Boston: 1682
 - Roxbury: 1480

311 SERVICE REQUESTS - 2013.csv

After examining the 311 Service Requests to examine whether or not they were on-time or overdue:

- 2024 (In-progress):
 - Total Requests: 35,452
 - On-time: 28,211
 - Overdue: 7,241
- 2023:
 - Total Requests: 313,226
 - On-time: 254,459
 - Overdue: 58,767
- 2022:

- Total Requests: 336,599
 - On-time: 288,655
 - Overdue: 47,944
- 2021:
 - Total Requests: 273,784
 - On-time: 226,290
 - Overdue: 47,494
- 2020:
 - Total Requests: 251,222
 - On-time: 203,337
 - Overdue: 47,885
- 2019:
 - Total Requests: 259,021
 - On-time: 207,390
 - Overdue: 51,631

Questions that can't be answered:

- Issue: How to merge the datasets to figure out how to narrow down the commonality between specific building features
 - How can we analyze the datasets to understand if buildings with certain features have more or less building violations? Is there a commonality there?
 - Do we narrow it down using styles of buildings, types of heating, etc.?