	Boston City Councilor Tania Fernandes 311 Equity
Contact	Amina Scott
Organization	Office of Boston City Councilor Fernandes
Organization Description	District 7
Project Type	Data Science
Project Description	Councilor Fernandes seeks to understand the allocation of city resources to District 7 through 311 service request reports.
Scope of the project	Analyze 5 years of 311 data (going back 5 years i.e 2017-2021). Priority is to analyze inspectional, housing, streets, parks and recreation, and trash removal/sanitation services in D7 and compare them to the rest of Boston. Priority is also to analyze underprivileged neighborhoods in the district (like Roxbury) and compare it to other areas in the neighborhood.
Data Sets & Sources	● 311 open data set ● Census 2020 (there are a lot of immigrant groups so getting more granular on demographics: Haitian American, Cape Verdean, etc. will be helpful) ● Shape files of City Council Districts: https://data.boston.gov/group/geospatial
Suggested Steps	● Merge 311 dataset with city council districts so we have a district number for each listed report ● Within each department, compare D7 to the rest of Boston to obtain a chronological list on which departments are top responders. ● Perform analysis on qualities of requests for Boston at large, and then specifically each council district, highlighting districts in comparison to D7

Questions to be answered in Analysis	● How is D7 being served vs. other districts in boston in regards to 311 service requests e.g. # open/closed requests, average time until request closed, etc. ● Data filters: Type of request, source of request (e.g. 311 app, city employee, phone complaint, etc.), vs. other neighborhoods, other?
Limitations with data and risks	1. Values in some columns of the 311 dataset may not be uniform and we might need to merge them (i.e in type there is Graffiti and Graffiti removal which could be grouped) which could take time to manually group them. 2. Client is not very familiar with the dataset so client requirements might not be feasible for the team to complete with the data available.
Summary of initial meeting	Main results: - Platform to submit the 311 requests: www.cityofboston.gov/311/ - Data source: 311 Service Requests - 311 Service Requests - 2021 - Analyze Boston - Client background: African immigrant, worked in social services before (She overcame monumental challenges after arriving in Boston as a child. Now, Tania Fernandes Anderson will break multiple barriers as city councilor. - The Boston Globe) - Client profile: Tania Fernandes Anderson | Boston.gov - Client twitter: https://twitter.com/Tania4D7 - Boston's district distribution: www.bostonplans.org/getattachment/a14f93b5-9d5a-4801-962c-37386895b030/ - Focus on South End, Roxbury, Back Bay, rest of D7 (Dorchester) - One of staff members (Amina) is working on adjusting district budget so our data can show they can better optimize the budget for underprivileged and underserved areas - If possible, find other datasets that can show things like population, average income, racial demographics to show who is using 311 requests - Some other possible points to focus on: inspectional housing, street housing, parks and rec - Compare the efficiency of different departments - Ultimate goal is to create platform where users can see the data easily and access services
Weekly meetings schedule	Fridays every week: From 1:00pm to 1:30

Ideal Output + Final Deliverable	Final report and presentation with key findings
Additional Information	High level long term goal of the project is to create a dashboard website for the D7 district so that residents can see and compare from a performance perspective how the district is doing in meeting its needs. The first step (our project) is to analyze 311 data to see how the district is asking for needs and how the city is responding to those needs. Councilor Fernandes: - One of the main points of her campaign was the focus on improving transportation and services in the district. Our project is then directly related to the services aspect as we help the councilor office analyze the district's service needs and how the city is responding to those needs.

CHECKLIST
1. Reviewed all previous material (DONE)
2. Revised scope of the project if needed (DONE)
3. Identify / list limitations with data and potential risks of achieving project goal (DONE)
4. Meet with client to review the project (DONE)
5. Schedule weekly meetings with PMs and bi-weekly with client (DONE)
6. Submit a PR with the revised project proposal including list of limitations