**Reviewed all previous material:**

The data set that client gave: <https://drive.google.com/drive/folders/17kMp-cL3Abl37wdiNywxfEDEYE7nl5NX>

Source available online: <https://www.boston.gov/departments/elections/state-and-city-election-results>

**Revised scope of the project if needed:**

Potential research question: How do racial voting patterns differ by election type?

**Identify / list limitations with data:**

The data are not completed

**Potential risks of achieving project goal:**

**Meet with client to review the project:**

The meeting was 2021/2/18 1pm-2pm

**Schedule weekly meetings with PMs and bi-weekly with client:**

Weekly meeting time: Fridays 8am-9am

Bi-weekly with client: undecided

**Submit a PR with the revised project proposal including list of limitations**

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| **Baystate Banner: Boston voting patterns** | |
| **Contact** | Yawu Miller  Senior Editor  [yawu@bannerpub.com](mailto:yawu@bannerpub.com)  Baystate Banner / Dorchester Reporter |
| **Organization** | [Baystate Banner](https://www.baystatebanner.com/)  Dorchester Reporter : https://www.dotnews.com/ |
| **Organization Description** | The Bay State Banner is an African American owned news weekly that reports on the political, economic, social and cultural issues that are of interest to African American and English speaking Latinos in Boston and throughout New England.  The Dorchester Reporter, founded in 1983, is a community newspaper which is published every Thursday. It serves the Dorchester and adjoining communities in Boston. |
| **Project Type** | Data Science |
| **Project Description** | The client wants to understand how racial voting patterns in Boston changed over the past decade on the Ward Precinct level. The components to measure voting behavior include ballots cast, blanks cast, registration, eligible voters, and turnout as an auxiliary measure. |
| **Data Sets** | The datasets are from independent Spark! Work in compiling and cleaning voter file data from the City of Boston  [Boston, 2011 - 2019 elections](https://drive.google.com/drive/folders/17kMp-cL3Abl37wdiNywxfEDEYE7nl5NX?usp=sharing)  \*\*PULL OUT DEMOGRAPHIC DATA FROM WARD/ PRECINCTS FROM THE DATA ABOVE\*\*  Datasets under focus:  2013, 2017 Mayor preliminary and general races  2016, 2020 Presidential general races  2018 Capuano vs. Pressley Congressional race  2018 DA preliminary and general races  2020 Democratic Senate primary  Additional ideas  [MassGIS (Bureau of Geographic Information) | Mass.gov](https://www.mass.gov/orgs/massgis-bureau-of-geographic-information)  [Electoral Maps | Boston Planning & Development Agency (bostonplans.org)](http://www.bostonplans.org/3d-data-maps/gis-maps/electoral-maps)  Here is the zoning board of appeal web page. It appears you can search for a project that was reviewed. Getting a database of it is another matter.  [Zoning Board of Appeal | Boston.gov](https://www.boston.gov/departments/inspectional-services/zoning-board-appeal) |
| **Suggested Steps** | **Step one:** Finish data collection for preliminary races in the years: 2013 and 2017 Mayoral races, 2016 and 2020 presidential races, 2018’s Capuano vs. Pressley race, 2020 Democratic Senate primary. Combine the election data with registration and American housing estimates (2017) data.  **Step two:** Find and amend eligible voter data for these years as a new column.  **Step three:** Overlay voter trends by race over the years, base geographic unit should be Ward Precincts  **Step four:** Create visualizations to summarize trends and patterns in voting by race, geography, and other measures like turnout, blanks cast, etc.  **Step five:** Add [ZBA approved permits](http://maps.bostonredevelopmentauthority.org/zoningviewer/) and find the column that might indicate property type being a condo  **Step six:** Analyze which Ward Precincts predominantly experience condo conversions and their associated demographics and voting patterns. |
| **Terminology** | **Eligible Voters:** size of voting age population in a political unit  **Percent registered:** number by political unit registered / total eligible  **Turnout:** number of votes cast / registered  **Blanks:** submitting a ballot but skipping one or more race  **Nonpartisan:** city elections (mayor, city council ) in Boston do not separate by party and elections are in odd-numbered years;  **Partisan:** state legislature, governor, president, congress, etc, vote by registered party even numbered years.  **ZBA**: Zoning Board of Appeal: City agency that approves larger development projects when they need exceptions to the rule, like building higher than the rule for that part of the city..  **Ward**: larger geographic unit for voting purposes.  **Precinct**: smaller geographic unit. In db terms, Wards have precincts. Note: wards and precincts do not align to census tract data, zip codes, or neighborhoods. The boundary lines are available in geospatial format.  In the voting results, ward and precinct are often presented as four character strings, 0414 would mean, the 14th precinct in Ward 4.  **Preliminary or primary election**: first round, narrows down candidates to final two.  **Final election**: picks the winner, all just like in the presidential election in the US last year.  **Districts**: all voting districts are sets of wards and precincts within wards. A city council district, however, will not align to a state senate or house of representative districts. |
| **Strategic questions** | 1. How have the demographic changes affected the prospects for candidates of color and white candidates? 2. How do racial voting patterns differ by election type? 3. What are the key predictors in determining support for Black candidates for Boston? 4. What are changes in District 3 particularly (Ward precincts: ) |
| **Additional Information** | **Tools & Methods**  *Data pre-processing:* Pandas, NumPy for processing and cleaning the data.  *Data Visualization:* Matplotlib, Seaborn, Tableau for all kinds of interactive visualizations  Steve comment: Need to correlate census tracts to ward and precinct. Source data includes this; do we need to verify it? Need to document procedure for this or redo, sorry. |