

## **Week 2 (Due Oct 20)**

### **What have we worked on?**

This past week, our main focus was on exploratory data analysis (EDA) for Boston's annual budget datasets. We've managed to: Plot distribution of budgets across various departments over the years. Compare the differences between projected and actual spending in the last five years. Identify certain neighborhoods that have seen significant changes in budget allocation. Examine and handle missing data points, ensuring that our dataset is as complete as possible for further analyses.

### **What will we be working on next?**

Building upon our EDA, our next steps will be to perform a deeper dive into anomalies or trends identified from the preliminary data exploration. Engage in data context research to further understand any underlying patterns or oddities in the budget data. Start building an initial model to forecast future budget allocations based on historical trends. Prepare a mid-project report that outlines our findings so far to be shared with the client.

### **Have we run into any issues? Do we need help?**

While we managed to address many missing values in the dataset, we still face challenges with bias in supplementary datasets. We are exploring methods to rectify these biases, but external expertise in this area might accelerate our progress. Additionally, some unexpected patterns in the data have emerged, which we aim to investigate further, to ascertain whether they are true anomalies or results of data inconsistencies.

### **Team Lead: Have we talked to the client recently? When are we meeting with them next?**

Post our EDA, we scheduled a meeting with the client for a mid-project check-in, and it is set for the upcoming week. This will be an opportunity to align our findings so far, address any concerns, and gather further direction or feedback for the next stages of our analysis.