**Outlining Data**

*(provide a little background info on dataset(s) chosen...why multiple rather than just one)*

**Datasets**

Zach

[https://data.cityofchicago.org/Transportation/CTA-Ridership-L-Station-Entries-Daily-Totals/5neh-572f/about\_data](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdata.cityofchicago.org%2FTransportation%2FCTA-Ridership-L-Station-Entries-Daily-Totals%2F5neh-572f%2Fabout_data&data=05%7C02%7CLCHAVE28%40depaul.edu%7C0183766d44dd49983dfd08dc5991e529%7C750d3a3f1f464da28a647605e75ea2f9%7C0%7C0%7C638483730343497959%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=UksxmmlWW78iVMl7IhY8lxSIuzTfpYlwXaAm6FZgrEU%3D&reserved=0)

Lucy

[https://www.transitchicago.com/data/](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.transitchicago.com%2Fdata%2F&data=05%7C02%7CLCHAVE28%40depaul.edu%7C0183766d44dd49983dfd08dc5991e529%7C750d3a3f1f464da28a647605e75ea2f9%7C0%7C0%7C638483730343516788%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=BYXnPAOlEYAX%2FMdk3s0ucAYxNwpkJ5NycUyBRhC%2FGG0%3D&reserved=0)

Danielle

<https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2/about_data>

[*https://data.census.gov/table?q=CBP2021.CB2100CBP&g=040XX00US17*](https://data.census.gov/table?q=CBP2021.CB2100CBP&g=040XX00US17)

<https://catalog.data.gov/dataset/chicago-population-counts>

Denvir

<https://www.kaggle.com/code/paultimothymooney/explore-housing-prices-in-chicago-il/input>

Denvir

<https://data.cityofchicago.org/Public-Safety/Crimes-2022/9hwr-2zxp/data>

**Problem Definition/Goals**

Is there a way that we can optimize urban development in Chicago by using more up-to-date CTA, Pace, demographic, and socioeconomic information to identify patterns to optimize transportation and forecast future developments?

Current concerns/identified issues: Due to the city’s demographic and socioeconomic changes over time, the efficiency and accessibility of public transportation may not be as reliable and optimal as it once was and has the potential to be.

**State Interest in Data**

Analyzing CTA data allows us to contribute to improving public transportation services in Chicago. By identifying patterns, optimizing routes, and understanding rider behavior, we can help make the transit system more efficient and user-friendly.

**Research Questions/Queries (At least 4)**

1. Can we identify opportunities for public transportation optimization based on our findings?
2. How do we locate and identify areas that would benefit from development?
3. How does the implementation of new CTA stations affect property values in surrounding neighborhoods, and what factors contribute to variations in these impacts?
   1. Note: Impact of transit development on Property Values
4. What conclusions/ideas can we draw from other examples that would supplement/advocate for our findings?
   1. References: The 78, Lathrop Homes Redevelopment

**Share Some Exploratory Analysis**

*(incorporate some statistical summaries & visualizations here)*

Items to Address in Our Response (1-3 pages)

* What is the problem you are attempting to solve?
* How is your solution valuable?
* What is your data source and how will you access it?
  + Give some background on the data
  + Provide a snapshot of the dataset
* What techniques do you anticipate using, and why?
* What do you anticipate being the biggest challenge you’ll face?
* What research question (queries) are you going to investigate?