Topic 1:

1. Socioeconomic status: income, employment status, mobility
2. Police force and the coverage of police station (consider community in language transmission)
3. Racial component
4. Neighborhood population tensity

Research Question: Which neighborhood is most dangerous

Topic 2: Twitter Sentiment and Wording

1. Language pattern converges as events keep simmering
2. Polarization and one side dominates

Topic 3:

Fan Group: (religion)

1. Movie/show adaptation: start with book-based fans, after the movie/show air the fans skyrocket increases and forming polarizing fan groups, conflict between book fans and adaptation base
2. Echo chamber

Research: Formulation/polarization of attitudes, opinions, and behaviors

Topic 4: Book-adaptation movies

Movie review using IMDB and book review using Google books review/goodreads, combination of movie and book review on twitter

* 2-3 paragraphs about project goals

Our team aim to study and explore gender inequality in terms of economic participation and opportunity, educational attainment, health and survival, political empowerment, crime against women, and opinions on abortion in the U.S.

We intend to integrate data from difference source that can display the gender inequality in each state in America and visualize the result in an interactive map. Our result can inform women about which state is more friendly and secure to live.

* List the two sources of data you plan to use. At least one must be obtained using web-scraping

1. Official report from the United States Census Bureau: <https://qwiexplorer.ces.census.gov/#x=0&g=0>
2. Twitter API to gather data about general public’s opinions on state-level abortion
3. Official Report of Educational Attainment in the United States from Educational Attainment in the United States: <https://www.census.gov/data/tables/2021/demo/educational-attainment/cps-detailed-tables.html>

* List the responsibilities of each member of your team (e.g. name: tasks). Be as precise as possible.

1. Literature Review: Guangjie Xu
2. Data Collection:
3. Data Cleaning and wrangling (Preprocessing): April Wang
4. Sentiment Analysis: Yingzi Jin
5. Data Modeling:
6. Data visualization (Map): Guangjie Xu
7. Presentation Slides:

April Wang: Data Cleaning and Wrangling, Modeling

Ruoyi Wu: Data Collection, Visualization

Yingzi Jin: Sentiment Analysis, Modeling

Guangjie Xu: Literature Review, Visualization