Final Report

1. Motivation: Provide an overview of the project goals and motivation.
2. Related work: Anything that inspired you, such as a paper, a web site, or something we discussed in class.
3. Initial questions: What questions are you trying to answer? How did these questions evolve over the course of the project? What new questions did you consider in the course of your analysis?
4. Data: Source, scraping method, cleaning, etc.
5. Exploratory analysis: Visualizations, summaries, and exploratory statistical analyses. Justify the steps you took, and show any major changes to your ideas.
6. Additional analysis: If you undertake formal statistical analyses, describe these in detail
7. Discussion: What were your findings? Are they what you expect? What insights into the data can you make?

Our initial analysis of the 2012 and 2016 election data has revealed some trends:

1. Republican dominance: There are more counties where the Republican Party holds a majority compared to Democratic-majority counties. As shown in Figure 1, the majority of U.S. counties lean Republican, with the highest concentrations in the Midwest and South.
2. Strong Republican presence: There are more counties that strongly favor the Republican Party, whereas Democratic-majority counties tend to be less strongly aligned.
3. Declining Democratic support: Over the period from 2012 to 2016, we observed a decrease in the number of counties supporting the Democratic Party, indicating a trend towards more Republican dominance.A map of the united states

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Figure 1. National trends of political party affiliations by county from 2012 to 2016.