

Increasing Life Expectancy

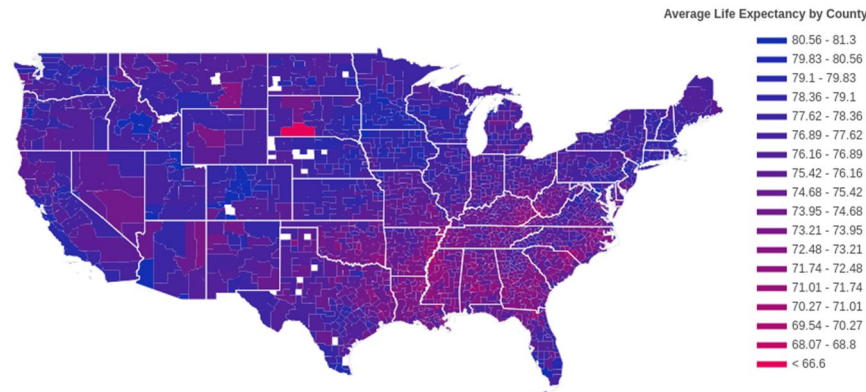
Will Sundstrom and Melissa Rodriguez

Average Life Expectancy(ALE)

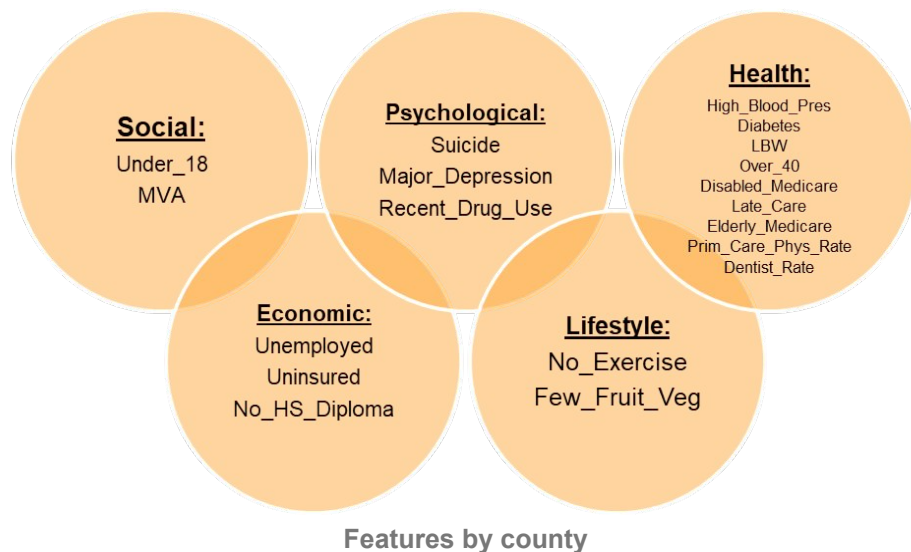
- **Life Expectancy**

- A statistical measure of the number of years that a baby born in a particular year is expected to live if current age-specific mortality trends continue to apply.
- Demographic socioeconomic health behaviors and psychosocial factors are considered for calculation
- It is a good measurement of overall health
- United States ranks 53rd the World with an ALE=79.38

What are the most effective intervention strategies to increase life expectancy in a county?



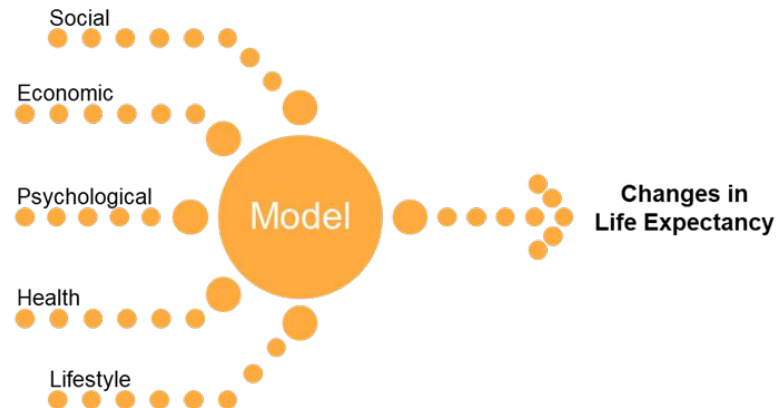
Average Life Expectancy - Model



- CDC Data: [Community Health Status Indicators](#)
- Aggregated by the CDC from multiple sources
- Selected features based on entirety of data

Methodology

- We used our data to create a model that tries to explain ALE in terms of our features
- We are focusing on which features are the most influential in the model
- This means that making improvements to the chosen features will have the largest impact on increasing life expectancy.





Findings & Recommendations

Findings



Disabled under Medicare
139 days



Low Birth Weight
88 days



Giving Birth before age 18
69 days

Injuries in Vehicle Accidents
51 days



Unemployment
26 days

Diabetes
20 days



No Exercise
16 days



High Blood Pressure
11 days

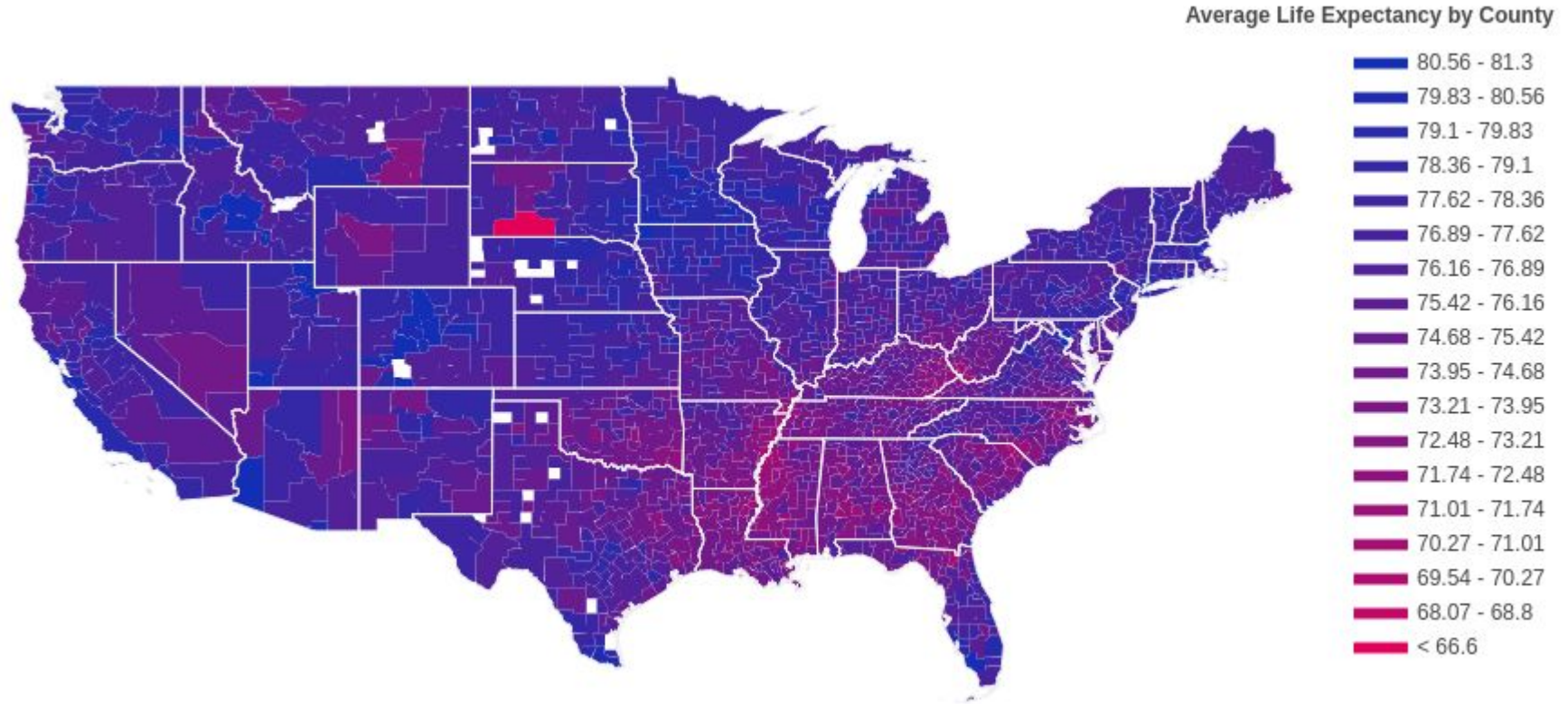


No High School Diploma
8 days

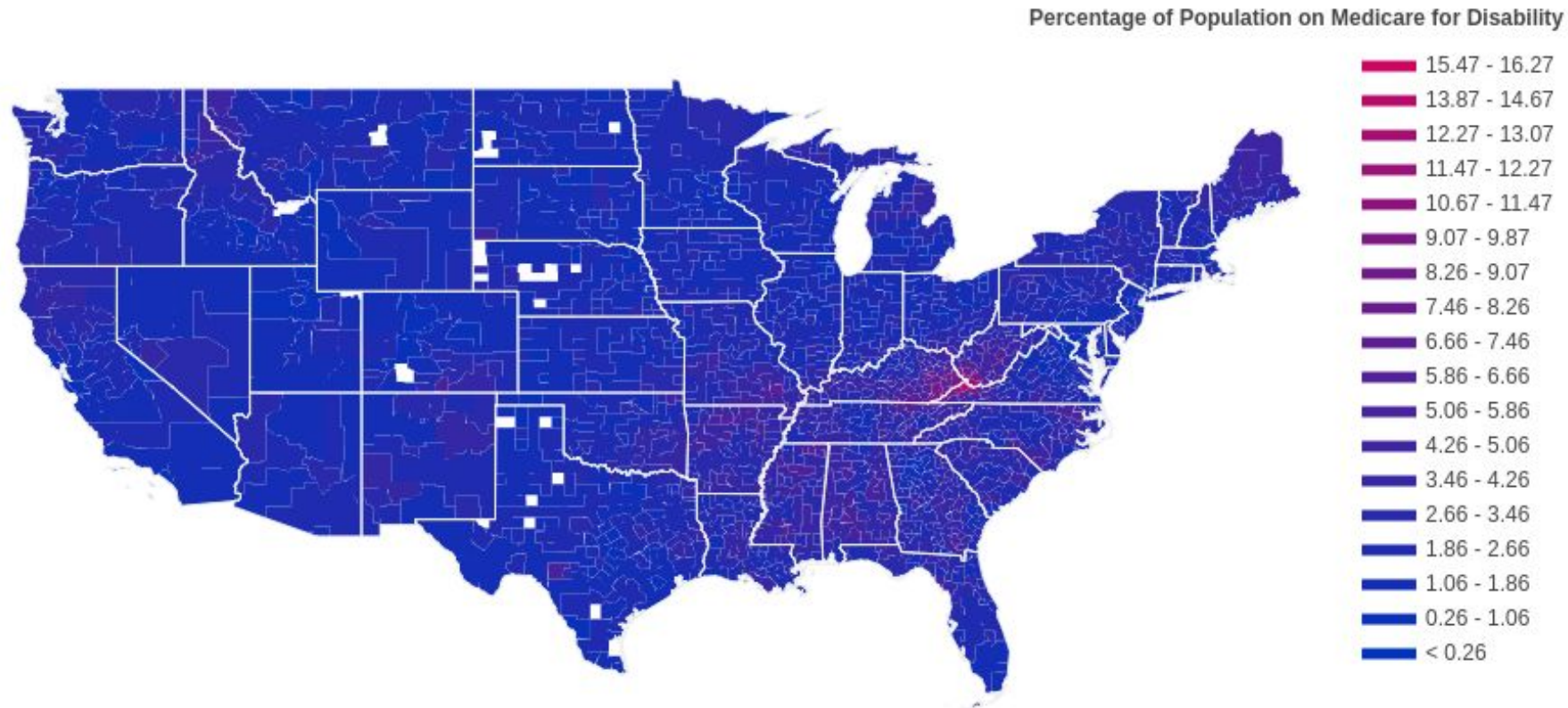


Suicide
7 days

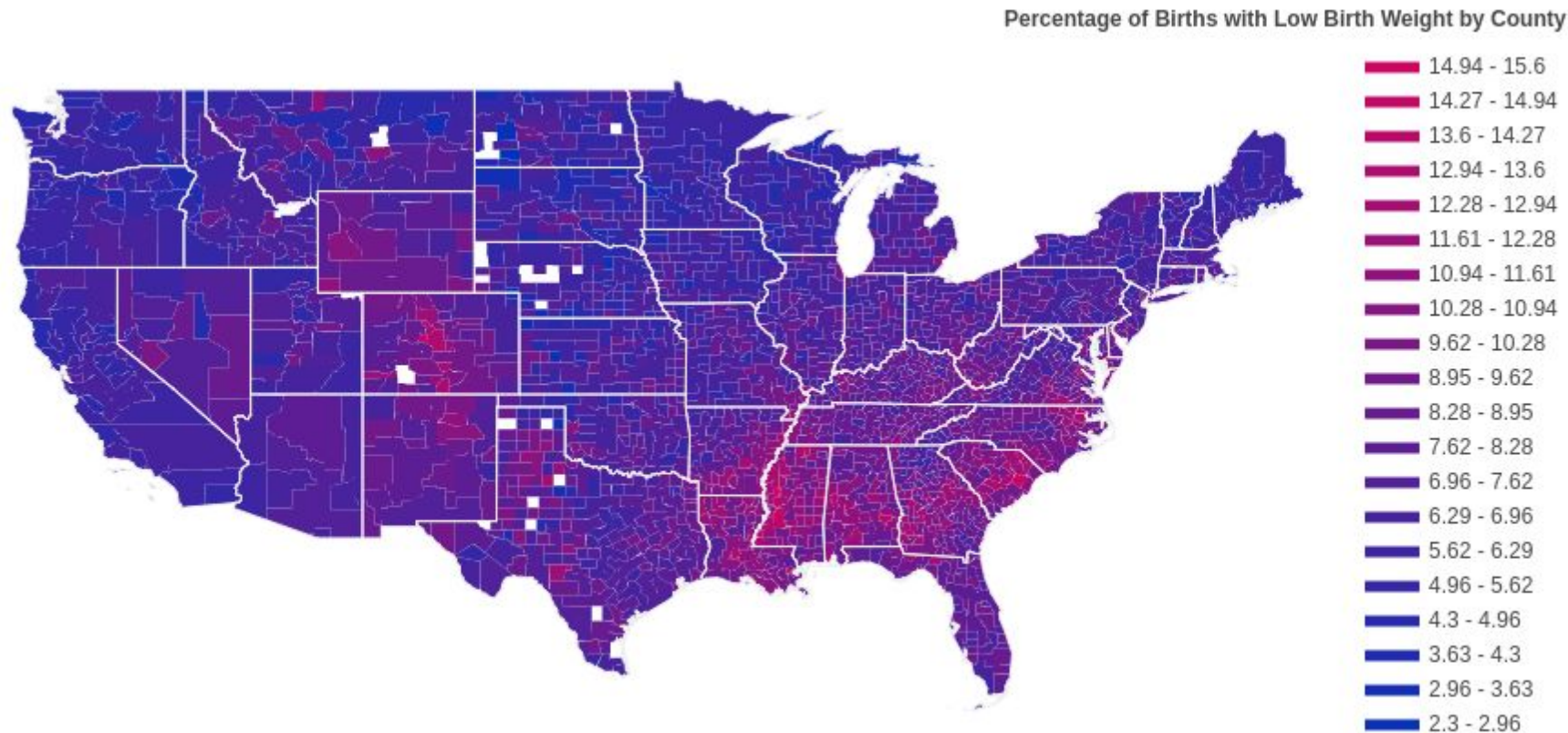
Average Life Expectancy(ALE)



Population on Medicare for Disability



Births with Low Weight



Recommendations and Next Steps

Recommendations

- Per capita people on disability was the single most influential feature, no one-size-fits-all solution
 - Look for possible localized causes; pollution, dangerous employment, etc.
- Low birth weight and mothers under age 18 both suggest a combination of reproductive education and pre and post-natal care
- Increasing enforcement and changing traffic patterns in high accident areas
- Encourage seniors to sign up for medicare with advertising and outreach

Next Steps

- Investigate small positive correlations that are counterintuitive
- Look at other county level data sources (Medicaid is not included in this data)
- See if there are local causes of high disability rates

Thank You!