Police Reform: How using a Cluster Model can provide key information

Acknowledging My Privilege

Before going over my presentation, I find it important to recognize and acknowledge my privilege.

Also

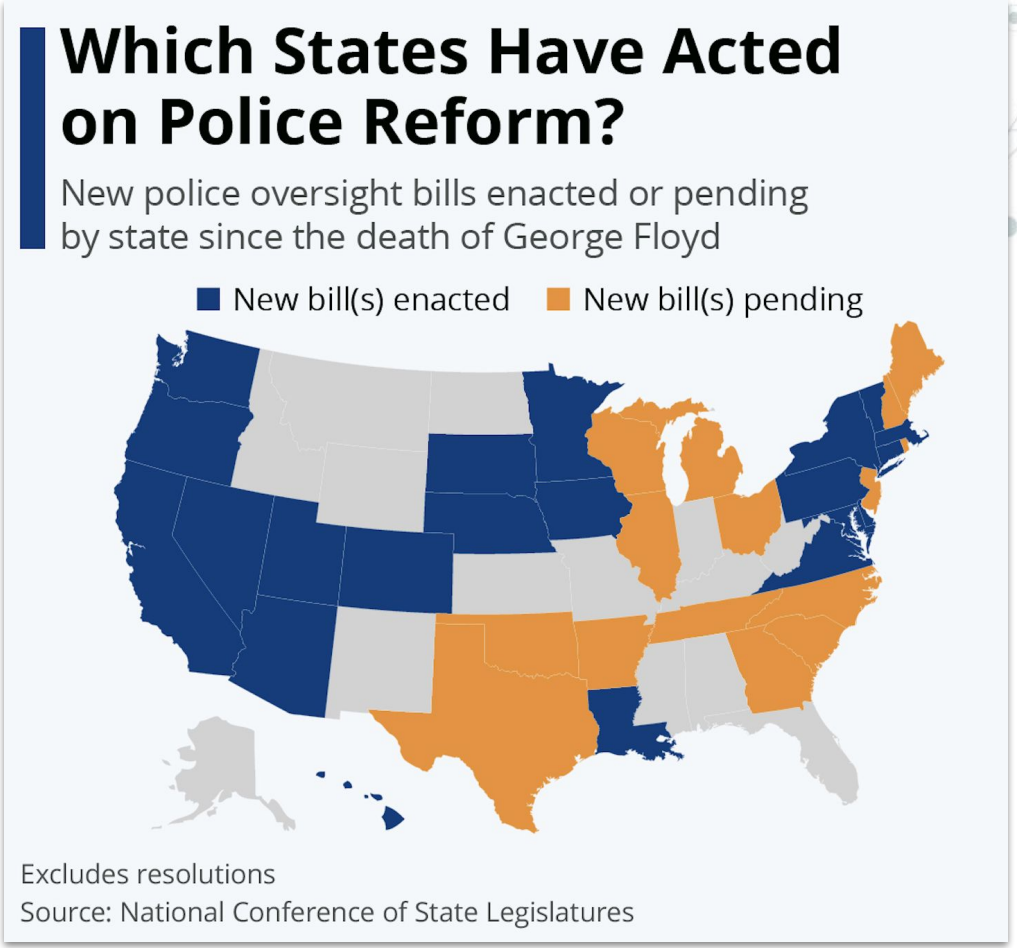
Also, my background information and problem statement contains information that may be triggering.

‘I can’t breathe’

The voices calling for an end to the killings of African Americans need to be heard. The voices calling for an end to police violence need to be heard.

Michelle Bachelet
UN High Commissioner for Human Rights

Reform for real or for show?



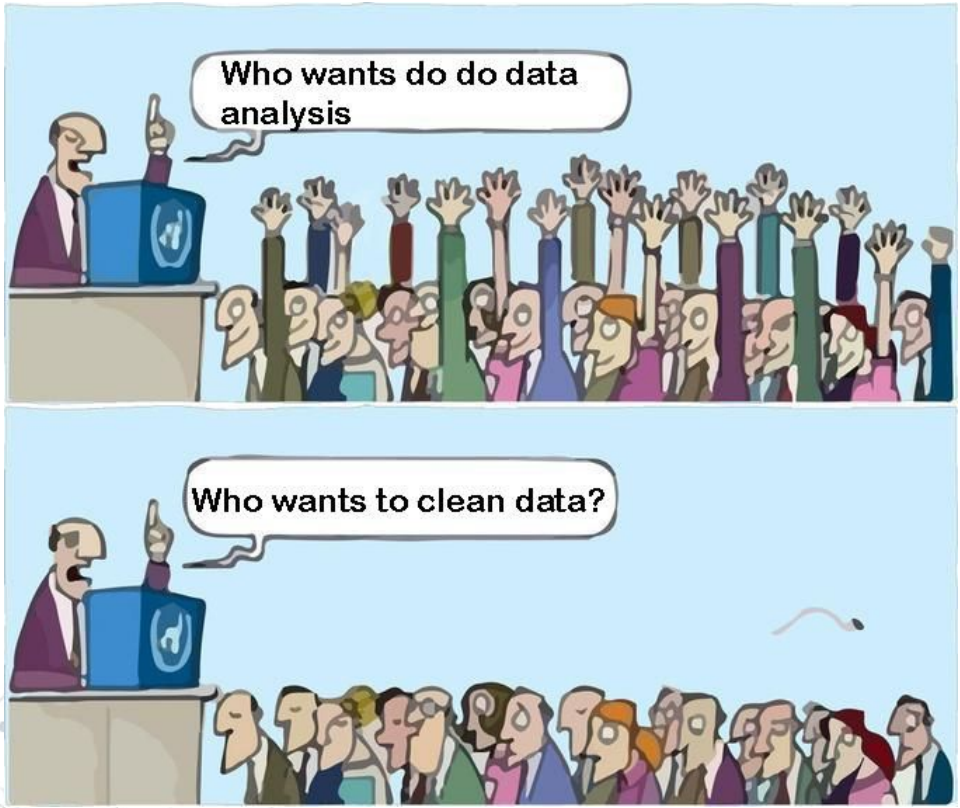

GET THE DATA ON POLICING
IN AMERICA.
GET THE FACTS ABOUT
US POLICE DEPARTMENTS AT
policescorecard.org
POLICE
SCORECARD

How did I cluster the counties? How do we define ‘similar counties?’

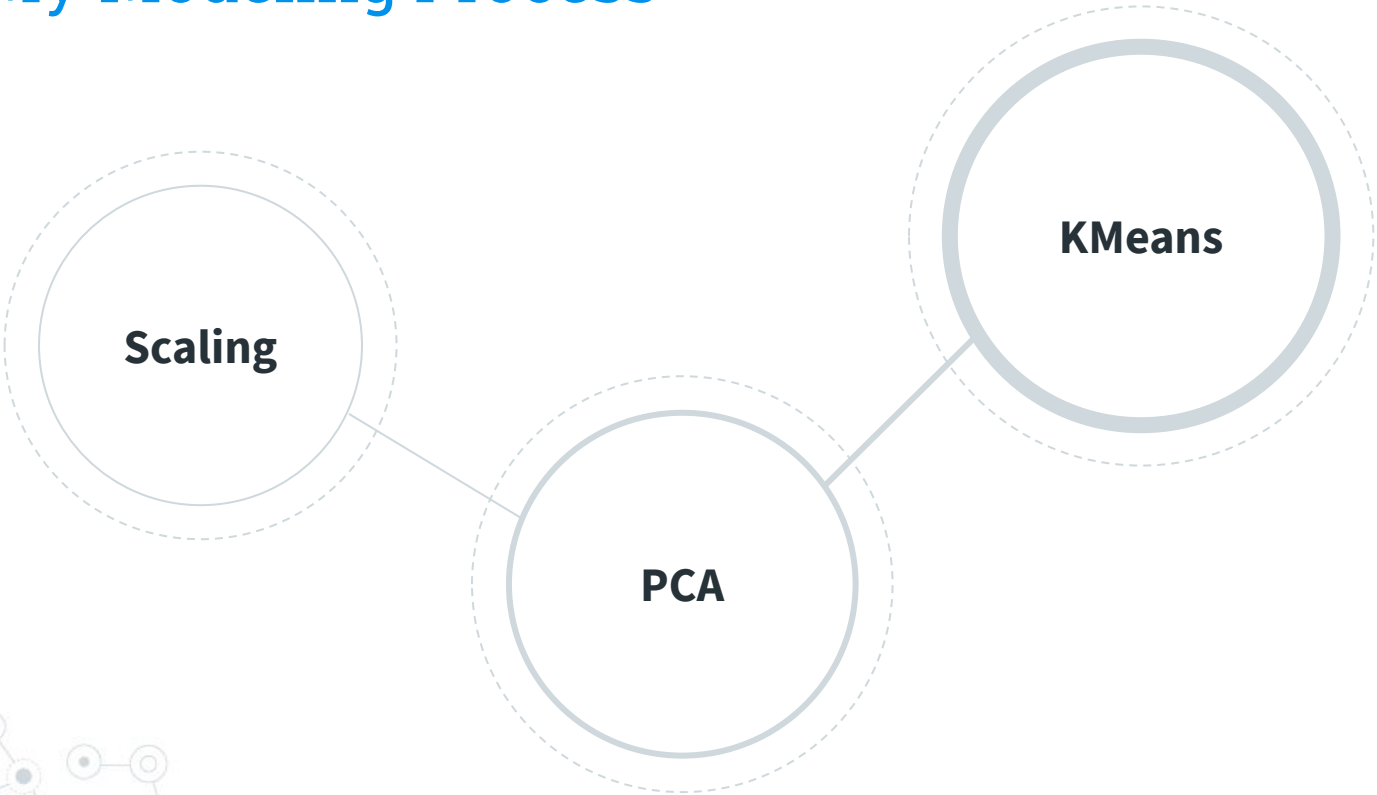
Categories

- Quality of Life
- Health Behaviors
- Access & Quality of Clinical Care
- Education
- Family & Social Support
- Community Safety
- Physical Environment

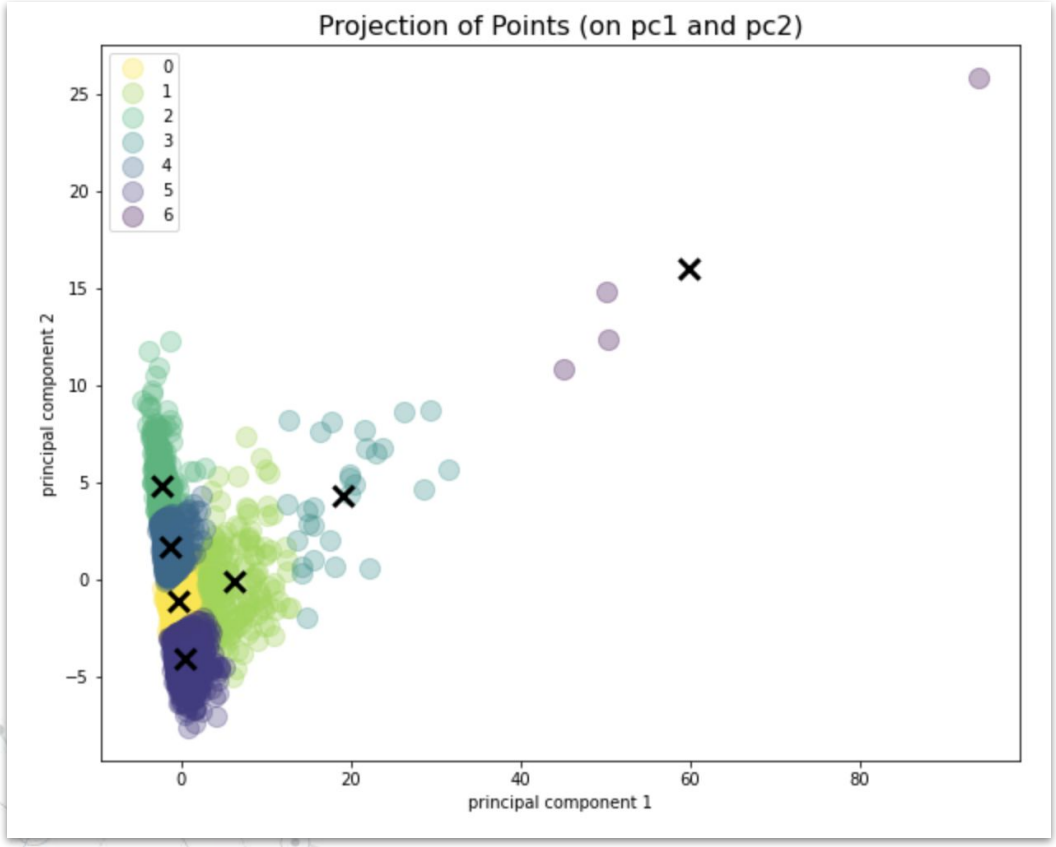
Cleaning...and cleaning...and cleaning



My Modeling Process

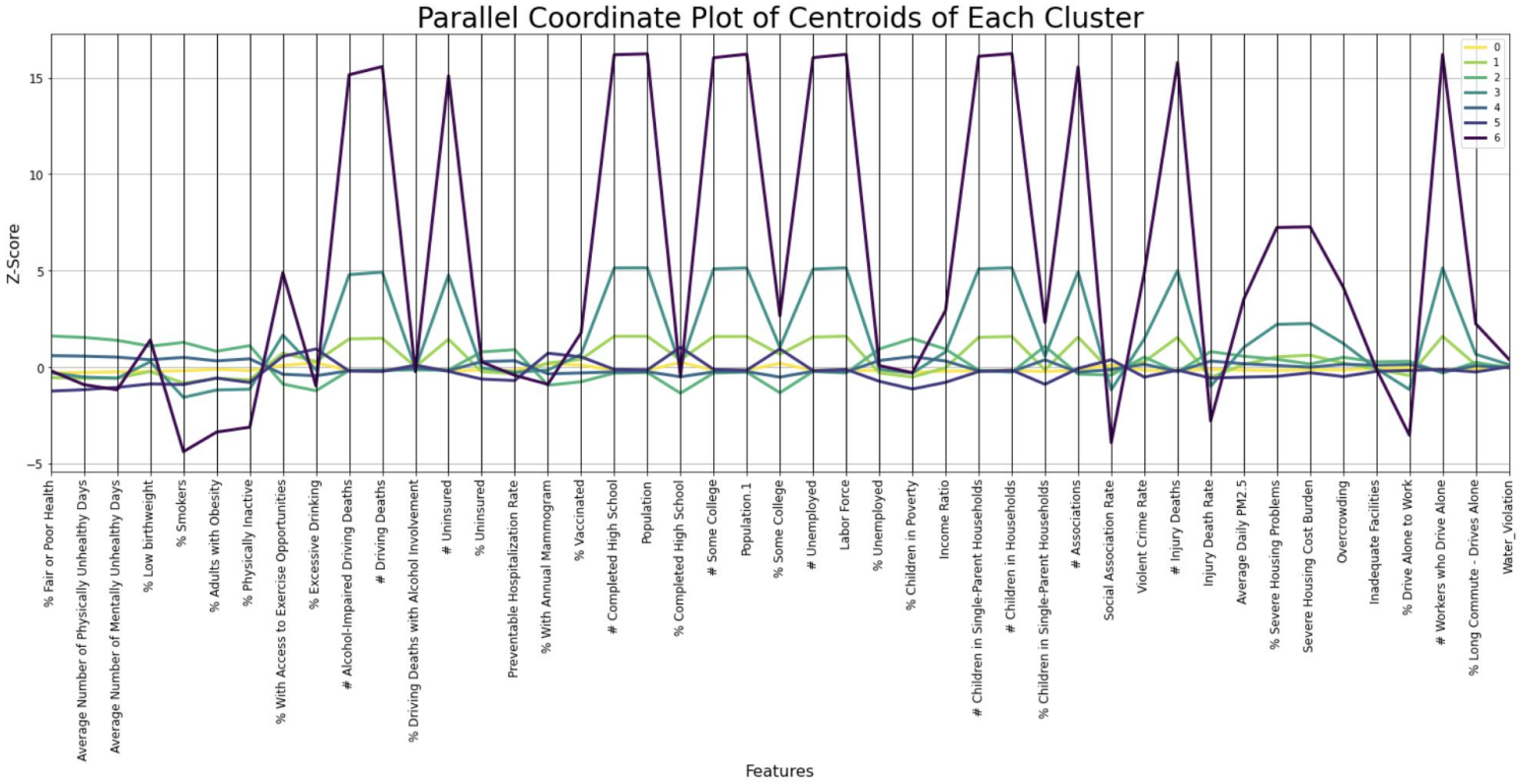


Graphing My Clusters



The cluster centers are marked with an ‘x.’ Each point represents the transformed data after PCA. It reduced my dimensions from 46 to 2. After 2 principal components, my silhouette score actually decreased - it’s possible it was picking up more noise.

Analyzing My Clusters



Conclusions

The clusters and function I created are merely a starting point - a way for local policymakers and change-agents get more data about places that are doing better than they are.

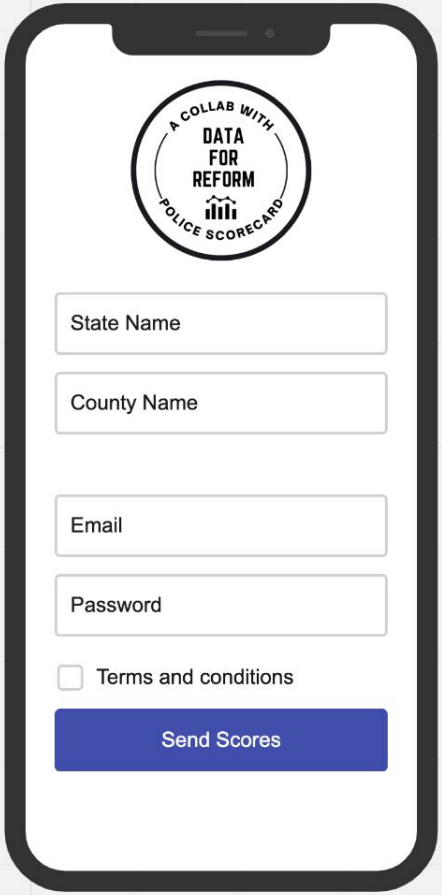
Next Steps

United States™ Census Bureau

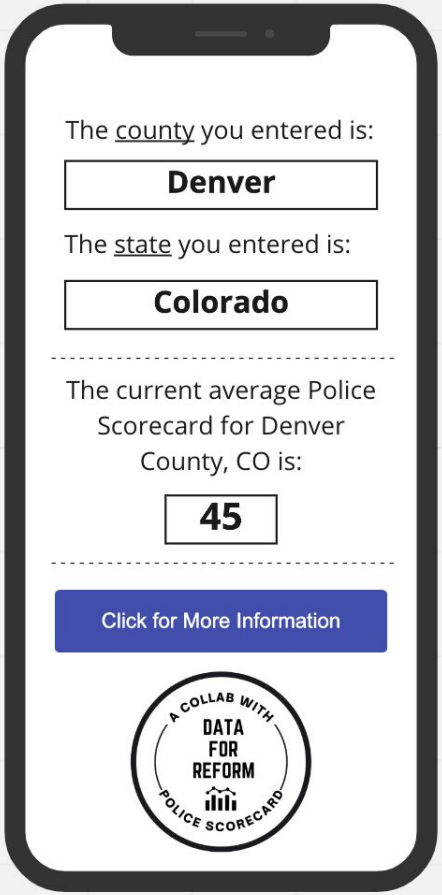
A COLLAB WITH DATA FOR REFORM POLICE SCORECARD

My Current Function

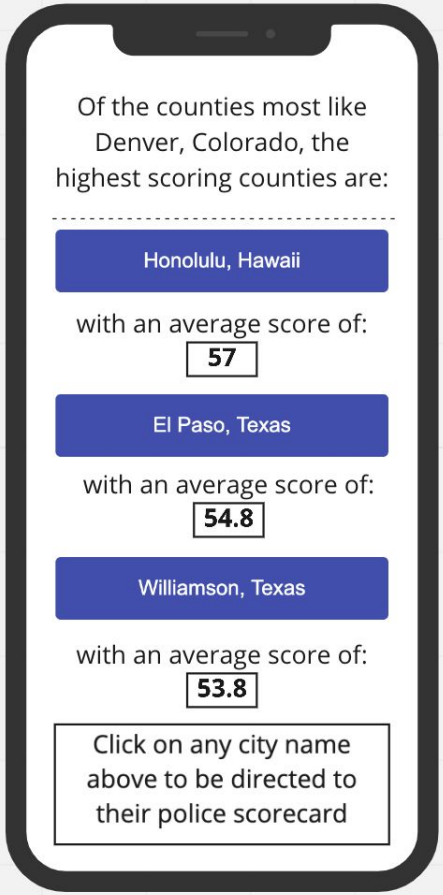
Enter Information



Results Screen 1



Results Screen 2



Thank you!
Any Questions?