## Presidential Election Analysis by County



#### **Business Problem**

Building a model to predict presidential elections at a county level

 Help campaigns predict how counties will vote in future elections



#### Data Acquisition

#### **Election Results by County**

Does not include Alaska. data.world





Alaska Results by County
thecinyc.com





Wikipedia.com

**Alaska Additional Information** 

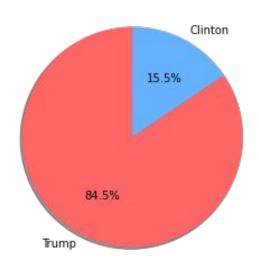
2010 US Census

Race and Income Information

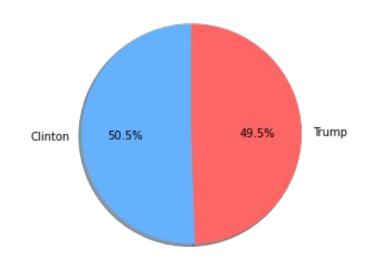
### Features by Order of Importance

- ≥ 2012 election results.
- Asian population
- Population under 18 and in poverty
- Land area
- Density

# 2016 Election Results by County

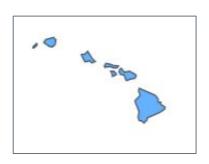


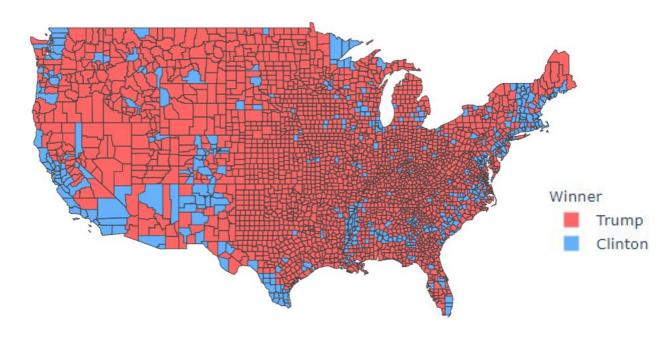
## 2016 Election Results by Popular Vote



#### 2016 Election Results

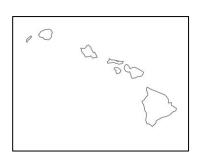


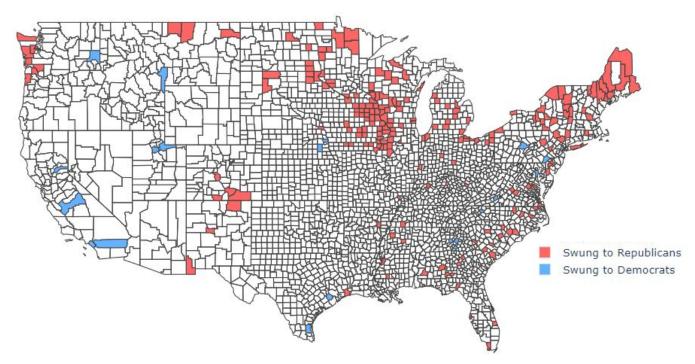


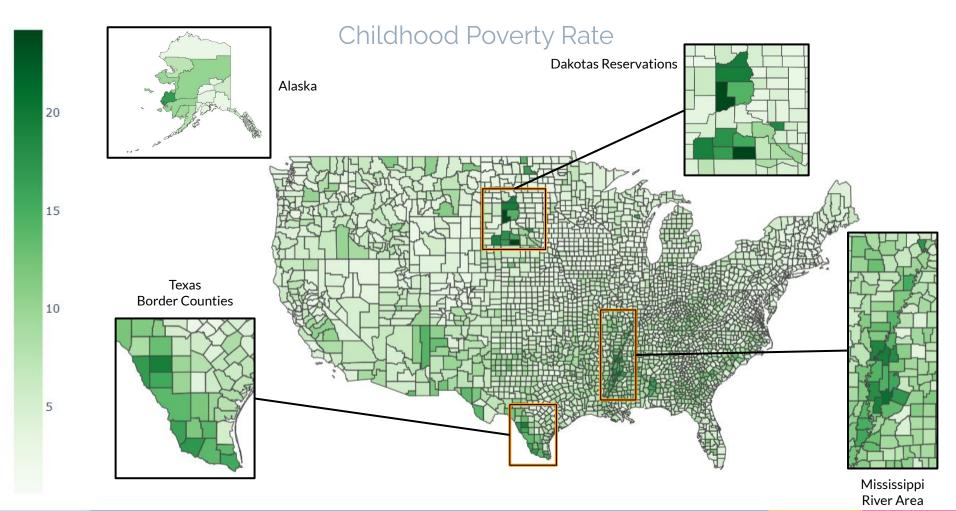


### **Swing Counties**

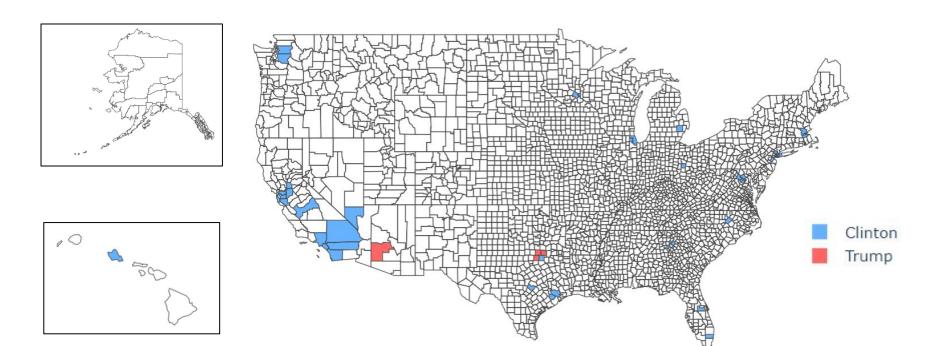




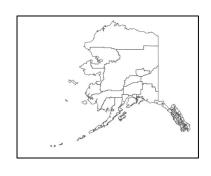


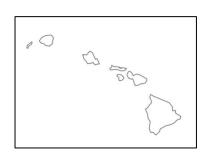


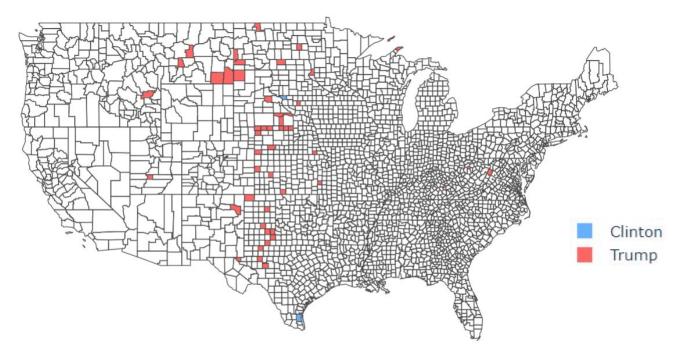
# 50 Counties with Highest Population of Asian Descent



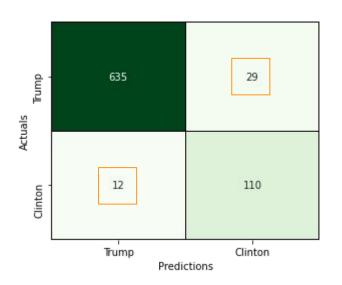
# 50 Counties with Lowest Population of Asian Descent







## Best Performing Model



Classifier	Scaler
Logistic Regression	Standard Scaler
Balanced class weight	with_mean and with_std = False

#### Conclusions

 Previous election results, population of Asian descent, childhood poverty, and density are key predictors

Many of the key features tend to have clusters of counties strongly affected

#### Next Steps

- Additional demographic data acquisition
- Further exploratory data analysis
- Add rates to model

# Thank you! I am Angie Rincon

**Data Scientist** 

- GitHub
- <u>LinkedIn</u>