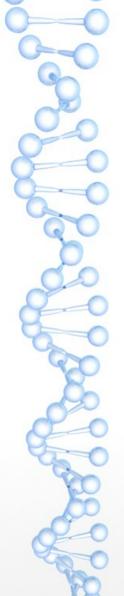


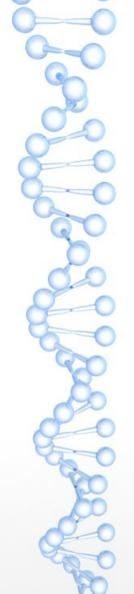
## COVID-19 Hospitalization Rates by County



### COVID-19 Impact

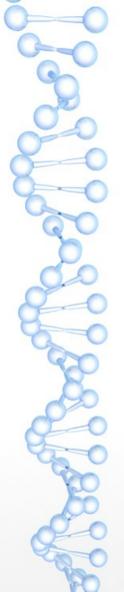
- 3+ Million people dead
- Worldwide Pandemic
- Shortages in medical care, as a result





### Problem: Hospitals Overcrowded

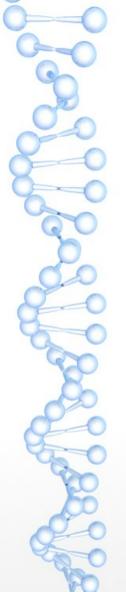
 Rising COVID cases and severity of symptoms have led to sharp increases in hospital admittance.



### Approach

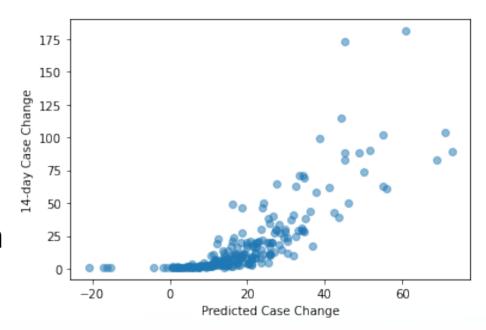
- Using New York Times Coverage of COVID-19
- Provides County-by-County data
- Features: hospitalization and vaccination rates
- Predicting Daily Case Change

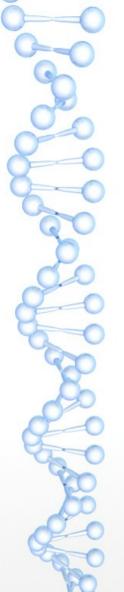
# The New York Times



#### Model

- The prediction and test values look almost exponential.
- Models' performance fluctuated
- Chose ridge regression





#### Results

 Some predicted values for counties across the US.

Mean: +21.1

Std. Dev: 19.4

	County	Predicted Values
169	Beauregard ,	7.721367
560	Clay »	13.741028
2737	Stanislaus ,	21.243127
2601	Schoharie ,	21.856274
3144	Windham >	32.225697
1509	Karnes >	27.036604
2798	Surry ,	20.115516
2207	Osceola >	36.426632
2089	Napa »	33.092712
150	Barry ,	17.967755