

December 2020

Hello!

I am Artsiom Naslednikau

I am here to give a presentation.

- https://orcid.org/0000-0002-7630-1972
- https://github.com/nasled/covid_research

Used Methods

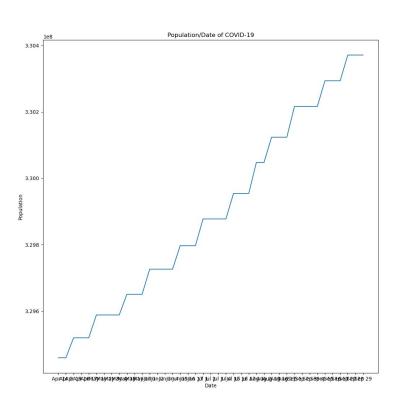
- Attribute Selection
- Data Normalization
- Regression Comparison
- Feature Classification
- O Clustering

Selected Attributes

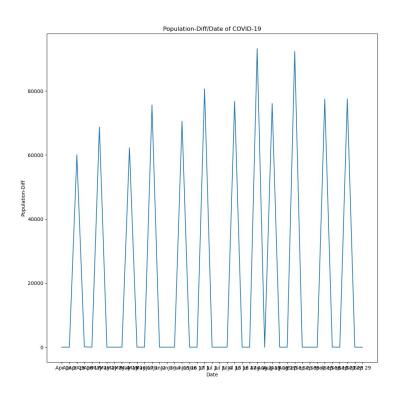
Property	Description	Type
submission_date	Date of counts	Date & Time
conf_cases	Total confirmed cases	Number
conf_death	Total number of confirmed deaths	Number



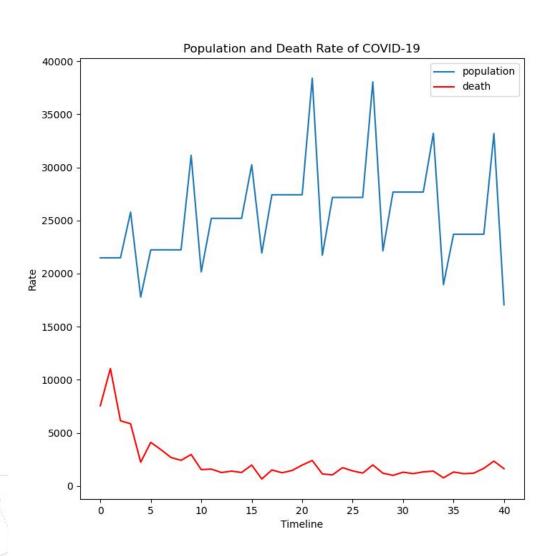
Data Normalization of USA population



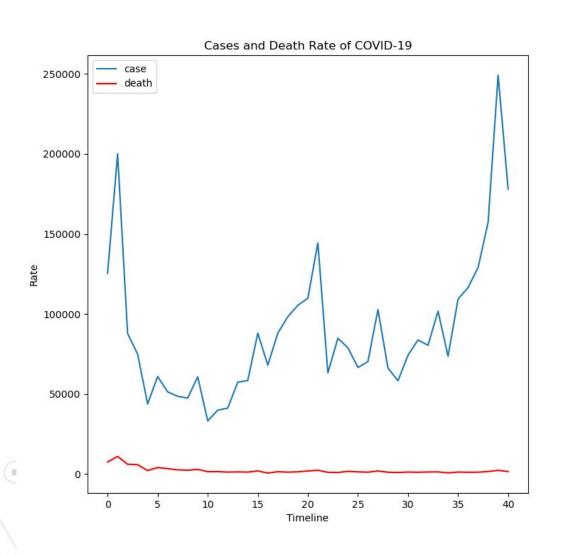




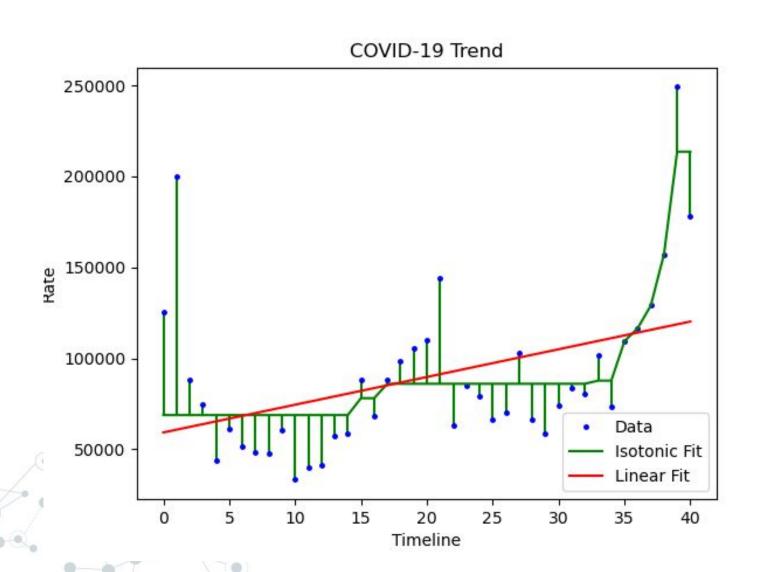
Population and Death Rate Interconnection



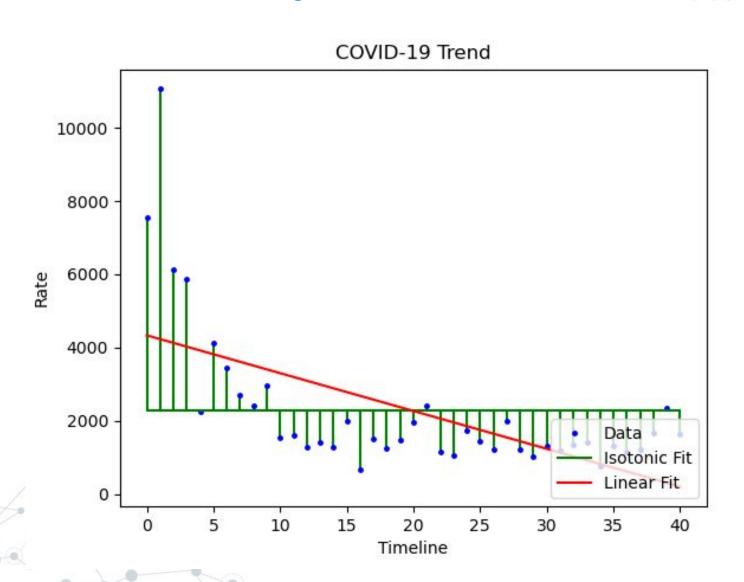
Cases and Death Rate Interconnection



Cases Rate Isotonic Regression



Death Rate Isotonic Regression



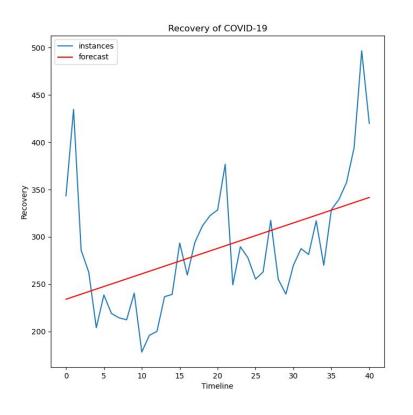
Recovery Formula

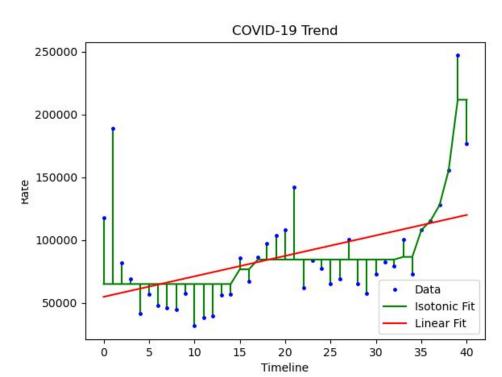


Recovery = Case - Death



Linear and Isotonic Regressions of Recovery Rate

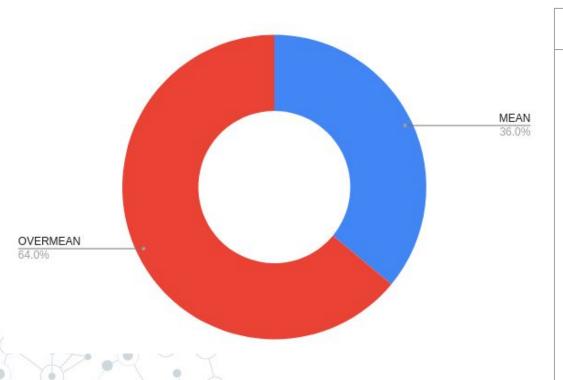




Recovery Rate Classification by State of COVID-19 in USA

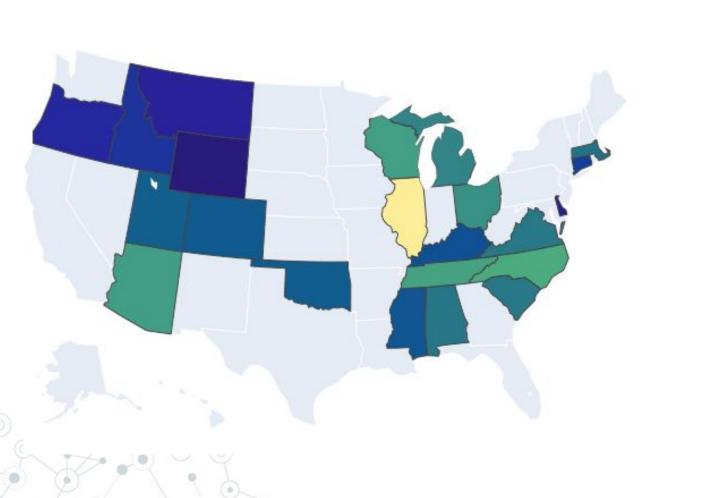
states in total.

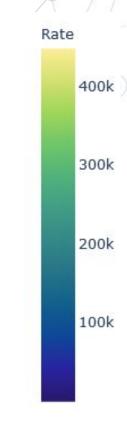
states bellow mean and **9** states over mean.



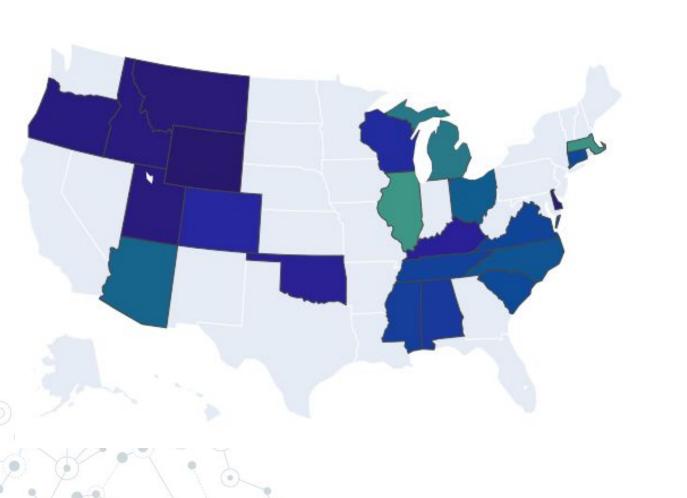
OVERMEAN
NC NY OH AZ TN MI WI IL GA

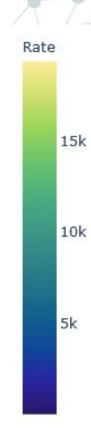
Cases Rate by State of COVID-19 in USA



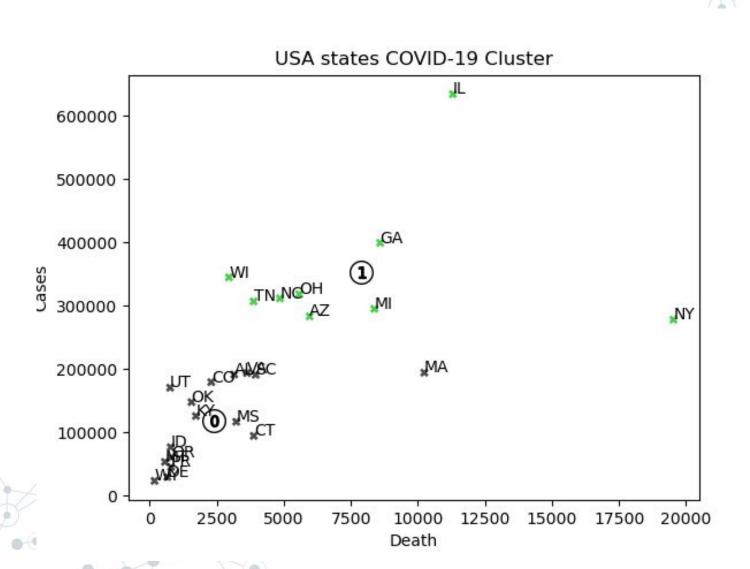


Death Rate by State of COVID-19 in USA





Clustering by State of COVID-19 in USA



Python Libs Used



- Scipy
- Numpy
- Math
- Matplotlib
- Plotly
- Pandas

Thanks!

Any questions?



