Using Data to Affect Health Disparities in Minority Communities

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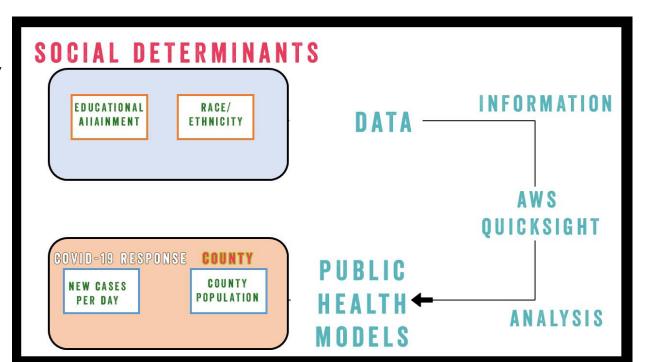
Abstract

COVID is disproportionately affecting the health of minority communities. Public health practitioners use scientific data to address social determinants of health, yet this data is not easily accessible to communities with the greatest need. You!Covid is a software tool to help users assess risks, cue actions, and develop self-efficacy in making behavioral changes to reduce COVID infections. Using Amazon Web Services' QuickSight, we prepared visualizations to highlight health disparities between people in Orleans Parish, LA and Fairfax County, VA and then we applied the Health Belief Model and the Socioecological Model in analyzing that data. We conclude with specific recommendations that can better inform and protect minority communities.

Flow

Left: Our variables and the category that they fall under

For each variable listed here, we retrieved a Dataset from Orleans and Fairfax counties

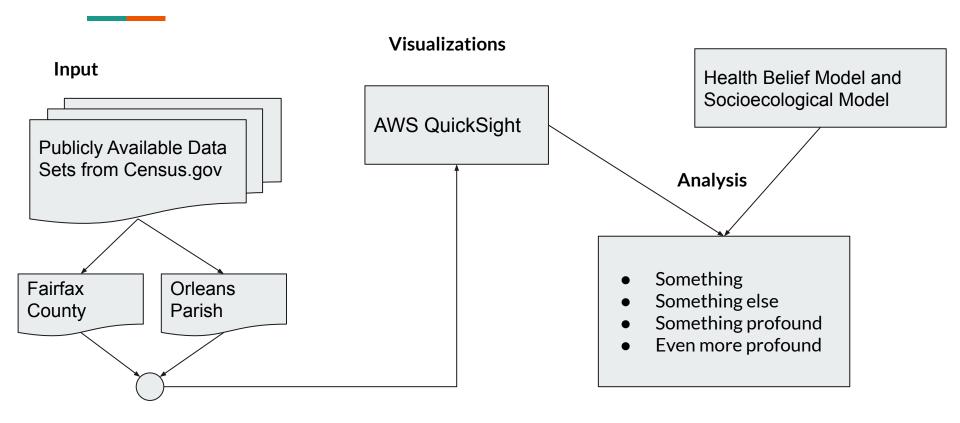


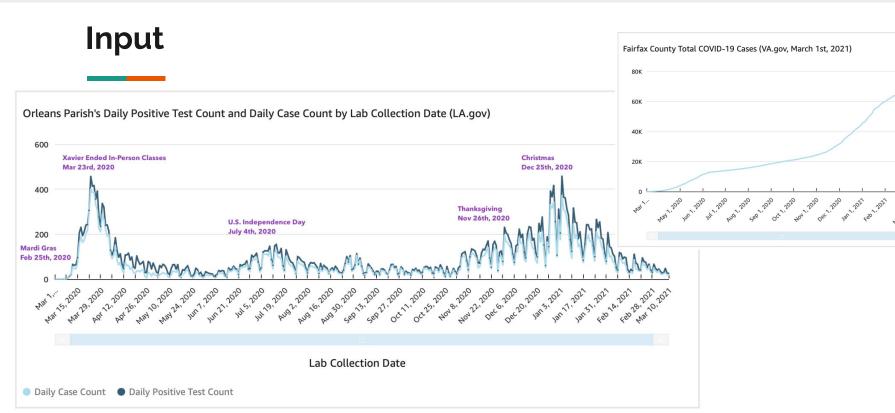
Right:
The process that
we use from
acquiring the
data, to creating
a story, to seeing
which public
health model the

situation falls

under.

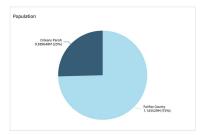
Flow

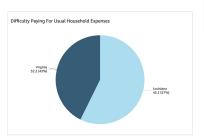


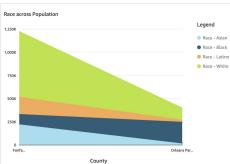


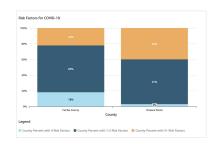
Visualizations

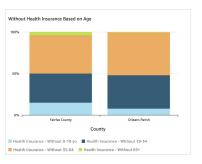


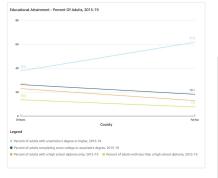


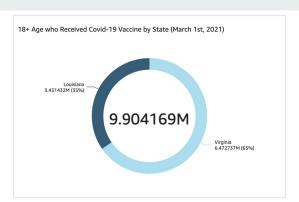


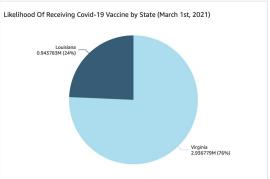




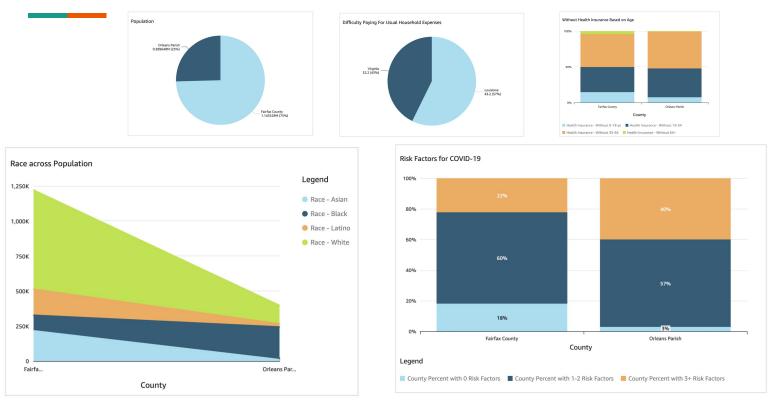








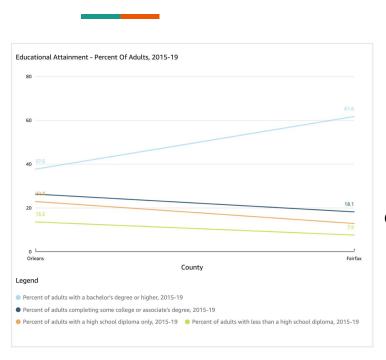
Population, Race, and COVID-19 Risks

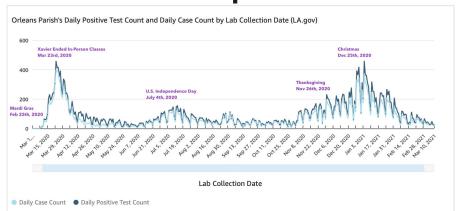


Data from U.S. Census' American Community Survey, Population Estimates, and the National Health Interview Survey.

Public Health Models

Educational Attainment and Health Disparities





Combating COVID-19 in Minority Communities

- Orleans Parish has more risks than Fairfax County and risks can contribute to higher infection rates.
- The Health Belief and Socioecological Models suggest improvements to susceptibility, benefits, community, and public policy.
- Orleans Parish residents are getting vaccinated but there seems to be issues with access to the vaccine.