COVID-19 RISK ASSESSMENT

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OUR PROJECT

Our goal was to create a COVID-19 Risk Calculator that was both tailored to and accessible for people in the US and Mexico. We utilized data from a variety of sources to create a quiz that can assess a person's COVID-19 risk level based on several factors including, but not limited to, location, habits, and demography.

METHODOLOGY

Our data was primarily scraped from the CDC and Mexican Government official websites. The assessment evaluates certain characteristics of an individual's day-to-day life to determine risk level. Rather than give the individual an arbitrary number to determine their risk level, the assessment provides a comprehensive breakdown of all factors assessed to inform the individual about what specific characteristics of their day-to-day life put them at a lower/higher risk of contracting COVID-19.
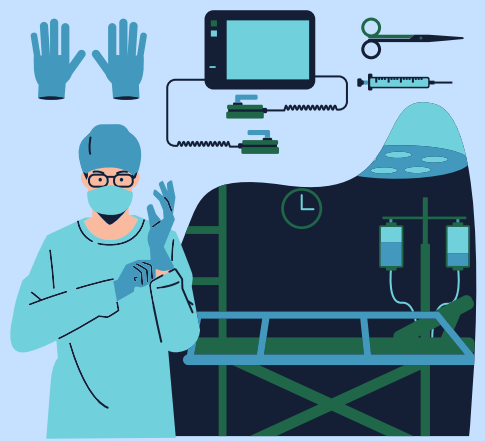
IMPACT AND USABILITY

Being a website, the assessment is very easy to access from any smartphone. The assessment is also completely accessible in both English and Spanish, which removes any potential language barriers. The scores and graphs are incredibly easy to understand, and we aimed to explain our methodology in the simplest way possible while also conveying important information.

FAIR AND ETHICAL USE OF DATA

Our project uses open, trusted, and public datasets, and we account for bias using confidence intervals on some of our variables. We also cater to the individual's specific location in order to assess their risk level, so the personalization of the assessment serves to make the assessment as accurate as possible.

INNOVATION

We found that most COVID-19 risk calculators were either not thorough enough, inaccurate, or both. Our goal was to create a calculator that not only included many different variables, but also shared the data and evidence with the individual via graphs and charts that explained the results. We curated over 20 graphs specific to the individual for this very purpose.

CHALLENGE QUESTION

Not only is our project accessible in both English and Spanish, for several variables, we use separate datasets for people living in the US and Mexico. In particular, demographic data was gathered and tailored to the individual's location, because it makes the risk calculations as accurate as possible.