

# *Finding the Best County in California State to Fight the Pandemic*

Jun 1, 2021



## **BACKGROUND:**

COVID-19 is an infectious disease caused by a newly discovered coronavirus. Most people infected with the COVID-19 virus will experience mild to moderate respiratory illness and recover without requiring special treatment. Older people, and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness. The COVID-19 virus spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes.

Therefore, it is advantageous to know which counties in a particular state (in our case CALIFORNIA state) are well equipped with hospitals & beds. This can be done by calculating the bed per person ratio. For example, this analysis can be useful to improve those counties whose bed per person ratio is less.

## **PROBLEM:**

**The pandemic situation has turned so worse that as of June 1, 2021, the state with highest number of COVID-19 cases in the United States was California. And over 3.5 million cases have been reported across the States of California.**

My main motive behind this is to create some useful insights on this situation. And in this project, we will determine which county is best prepared for this pandemic, by finding out the **best ratio of hospital beds per person** and **ICU beds per person** for each county in California. We will also cluster the counties based on the above ratios.