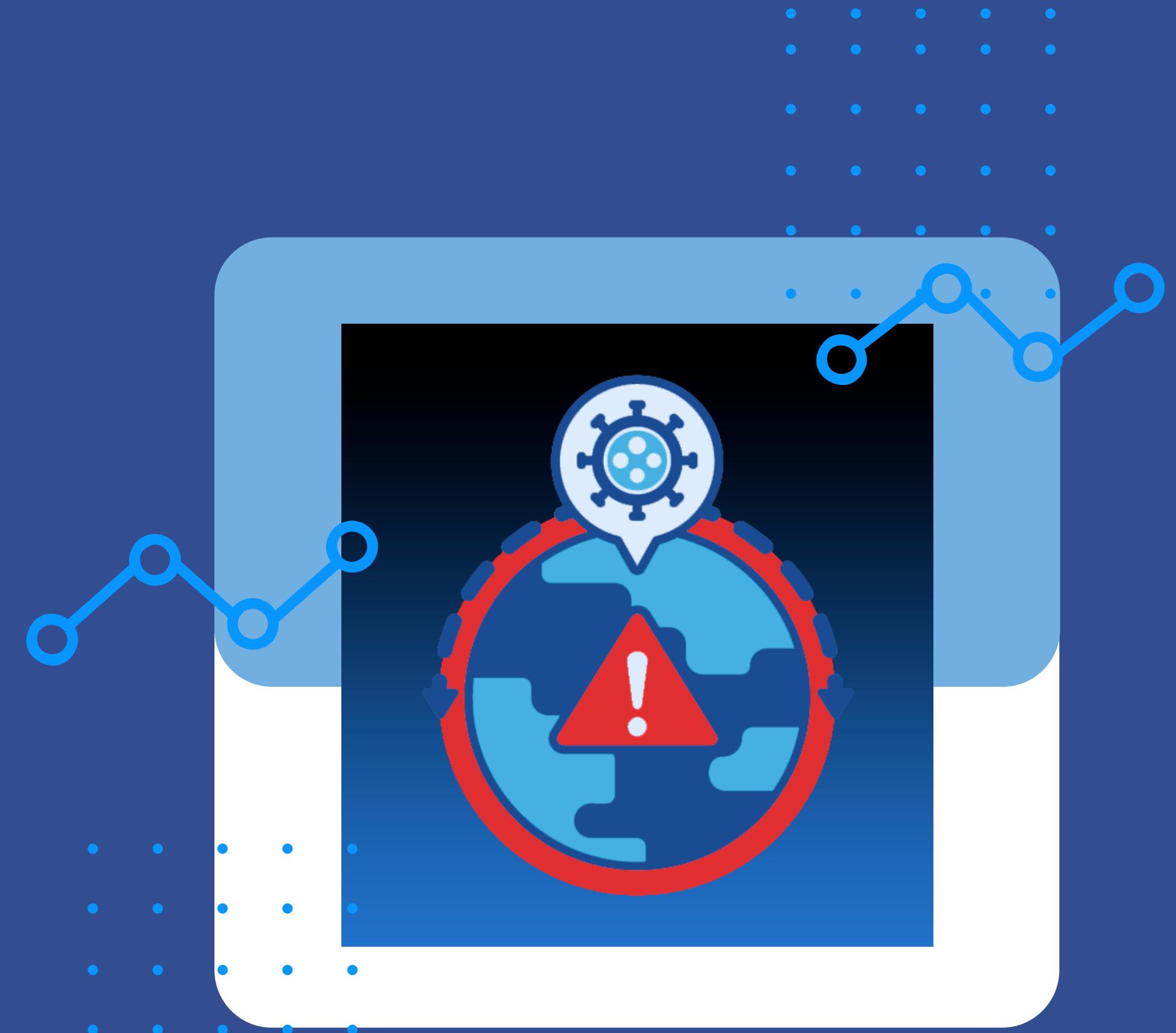


Fight the Pandemic

Data-driven solutions to predict
disease hotspots



AWAY FROM THE CROWD

Delayed response to the COVID-19 pandemic

Negative effects

AWAY FROM THE CROWD

- Lack of beds in Hospitals
- IPEs and medical ressources are running out
- Unbridled increase on the number of infected and deaths
- Not knowing the next disease hotspot

A screenshot of a news article from G1 (g1.globo.com) titled "Profissionais alertam para falta de máscaras indicadas para casos de coronavírus no Rio". The article discusses a shortage of masks for COVID-19 cases in Rio de Janeiro, with professionals expressing concern. It includes a quote from the Prefeitura (City Hall) stating that all prevention and safety protocols are being adopted. Below the main article, there's a search bar, a sidebar with links to other news sites like Folha and Estadão, and a sidebar with social media sharing options.

a final - Documentos Google x | (1) WhatsApp x | Yu Yi, SrCanele, Kenzo, Mayara x | Taxa de ocupação dos leitos de terapia intensiva em Natal é de quase 100percent.ghtml +

C g1 globoesporte gshow vídeos G GABI

G1 JORNAL NACIONAL

Taxa de ocupação dos leitos de terapia intensiva em Natal é de quase 100%

De acordo com o boletim da Secretaria de Saúde do estado divulgado neste sábado (30), o Rio Grande do Norte teve o maior número de casos registrados em 24 horas. A fila por um leito de UTI também subiu.

30/05/2020 21h54 · Atualizado há 10 horas

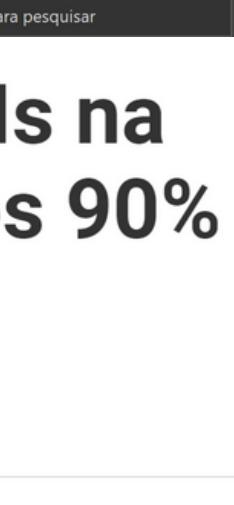
[Facebook](#) [Twitter](#) [WhatsApp](#) [LinkedIn](#) [Pinterest](#)

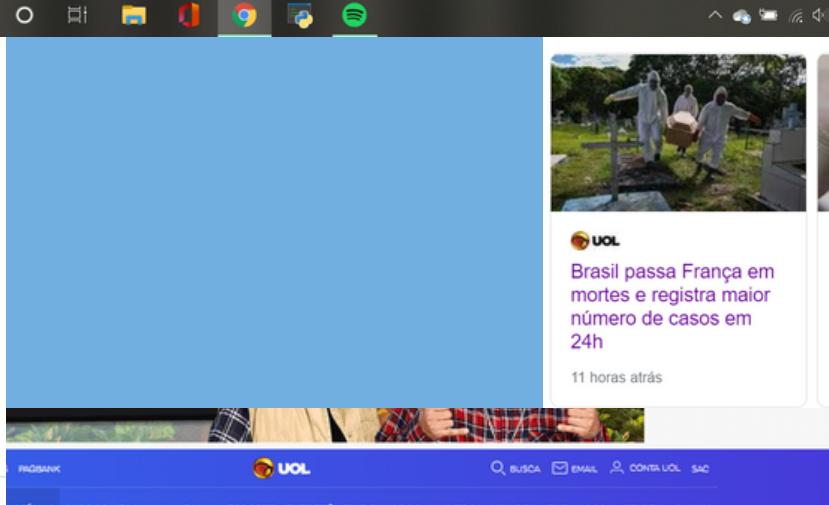
Digite aqui para pesquisar

Digitando "UTIs na pandemia de coronavírus":

UTIs na pandemia de coronavírus dos 90%

15 dias





CORONAVÍRUS

Covid-19: De falta de máscaras a sabonete, CFM registra 2.000 denúncias



Médico preparando-se para pré-atestamento de teste, na central de triagem de coronavírus do Grupo Hospital Conceição, em Ponto Alegre (RS).

PUBLICIDADE



Faça atividades de MATEMÁTICA, INGLÊS E LÓGICA SEM SAIR DE CASA!

CLIQUE E BAIXE GRATUITAMENTE



Vestibular Digital
Com qualidade, você conquista.

A screenshot of the Google COVID-19 dashboard for Brazil. The interface includes a top navigation bar with icons for search, microphone, and refresh, and menu options for 'Configurações' and 'Ferramentas'. On the left, there's a sidebar with a profile picture of a person wearing a mask, a 'Mais' button, and a summary box stating 'Brasil tem 500 mil casos confirmados e 28.834 mortes'. Below this is a 'atrás' link. The main content area features a section titled 'Visão geral dos casos' with data for Brazil and Global. For Brazil, it shows 499,966 confirmed cases, 200,892 recovered cases, and 28,849 deaths. For Global, it shows 6,075,786 confirmed cases, 2,571,797 recovered cases, and 369,529 deaths. A large blue button at the bottom right says 'Mais locais e estatísticas'.

The Perfect Scenario

Data-driven solutions to predict disease hotspots

AWAY FROM THE CROWD

Find a spread pattern

Based on population density, nighttime lights, transportation use and touristic routes, we found a pattern on how the virus spreads itself

Predict Hotspots

Since we discovered the virus pattern, we can predict its path, discovering the next pandemic epicenter

Slow down the spread

Knowing the next hotspots, the government and people in general, can take measures to "flatten the curve"

Fight the Pandemic

Channeling resources through the right direction with data-driven predictions

AWAY FROM THE CROWD



Timing

Boom of COVID-19 cases
in Latin America

AWAY FROM THE CROWD

Increase of infected people in Latin America

The medical system is almost crashing in a lot of Latin America countrys, Brazil, for exemple, hit the mark of 26k new cases on both May 28 and 29

Lack of medical resources

Since the number of people with the virus is increasing quickly, IPEs and medical resources in general are becoming increasingly scarce. Some cities in Brazil have already achieved 100% of ICU lotation, while São Paulo and Rio de Janeiro have less than 20% of its beds available

Competitive Advantages

What makes us unique

AWAY FROM THE CROWD



The team

The team that came up with Fight the Pandemic is a group of engineering students that were affected by the COVID-19 pandemic and want to make the difference

Easy access to information

Fight the Pandemic will provide all the information about the patterns and new hotspots on its website, so all the information will be available in one place

Dataset

Team Away From The Crowd used transportation and touristic routes, population density and the use of light data, extracted from Nasa's database, in order to discover this patterns.

The Team

AWAY FROM THE CROWD

Vinicius Takiya
Engineering Student

Vinicius Moraes
Engineering Student

Yu Yi Wang Xia
Engineering Student

Mayara Mendonça
Engineering Student

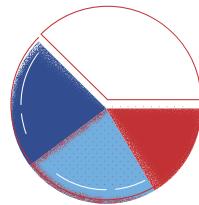
Gabrielle Rangel
Engineering Student

Future Roadmap

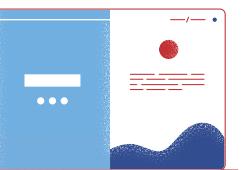
What are our plans for the future of Fight the Pandemic



ANALYSIS IMPROVEMENT
USING WIFI LOCATION



MODEL EXPANSION TO
OTHERS REGIONS OF THE
WORLD



FURTHER DEVELOPMENT OF
THE EPIDEMIOLOGIC
MODEL



ADAPTATION OF THE
MODEL FOR FUTURE
PANDEMICS

AWAY FROM THE CROWD

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AWAY FROM THE CROWD

