



The Crown Effect

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The Wall Street Journal

Mexico Confirms First Case of Coronavirus

Oregon Health Officials Confirm First Case Of Novel Coronavirus

WHO: 10 Ways to Protect Against the Coronavirus

Coronavirus is a huge issue in today's world!

Study Reports First Case of Coronavirus Spread by Asymptomatic Person

New Cases in China Appear to Be Slowing

China's Coronavirus Figures Don't Add Up. 'This Never Happens With Real Data.'

The Coronavirus's Effect on Tourism Will Carry Into 2021, Experts Say

Awful online coronavirus hoaxes keep popping up

February 2 coronavirus news

Bloomberg

STAT

The Atlantic



What is the global impact?



{Problem Statement and Project Goals}

Problem Statement

The recent epidemic **coronavirus** creates **uncertainties** in the **global health community**, and it is **challenging** to **communicate potential risks** to the **general public** and **public health professionals**.

Project Goals



Create an interactive **user interface** and comprehensive **visualizations** to make information about coronavirus **easily digestible** for the general public



Predict potential **health risks** and **business risks** in the future and **support data-driven decision making** among professionals



Provide policy makers and health professionals with **reliable** information regarding the future spread of coronavirus and help them take **proactive** measures



{Our Solution}

The Crown Effect is an Open Source project that's driven by Python. We utilized **Facebook's** Open Source **Prophet** library to **predict future** coronavirus cases worldwide based on current trends and present the data to users in a simple, **map-based graphical interface**. Some of The Crown Effect's features and technical specifications:

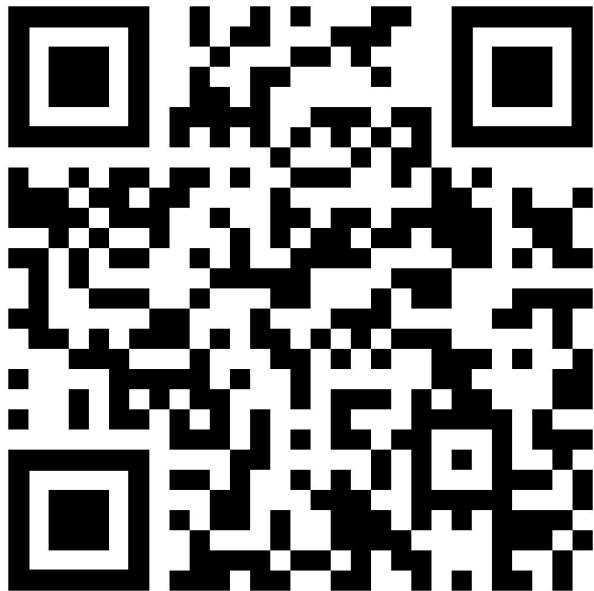
 **Quick curve-fitting-based model** facilitated by Facebook's Prophet and powered by Stan, using GAMs and fitting via L-BFGS

 **Plot.ly's Open Source Graphing Library** to present predictions on the world map with interactive components for the user to use

 **Python-based backend** to automatically fetch the latest coronavirus spread data, generate predictions, and update visualizations via daily cron jobs



{See the Crown Effect for yourself!}



Visit The Crown Effect [here!](#)

<https://crown-effect.herokuapp.com>

