

Background

The 2019 Novel Coronavirus, or 2019-nCoV, is a new respiratory virus first identified in Wuhan, Hubei Province, China. A novel coronavirus (nCoV) is a new coronavirus that has not been previously identified. The 2019 novel coronavirus (2019-nCoV), is not that same as the coronaviruses that commonly circulate among humans and cause mild illness, like the common cold.

A diagnosis with coronavirus 229E, NL63, OC43, or HKU1 is not the same as a 2019-nCoV diagnosis. These are different viruses and patients with 2019-nCoV will be evaluated and cared for differently than patients with common coronavirus diagnosis.

Public health officials and partners are working hard to identify the source of the 2019-nCoV. Coronaviruses are a large family of viruses, some causing illness in people and others that circulate among animals, including camels, cats and bats. Analysis of the genetic tree of this virus is ongoing to know the specific source of the virus. SARS, another coronavirus that emerged to infect people, came from civet cats, while MERS, another coronavirus that emerged to infect people, came from camels. More information about the source and spread of 2019-nCoV is available on the 2019-nCoV Situation Summary: Source and Spread of the Virus.

This virus probably originally emerged from an animal source but now seems to be spreading from person-to-person. It's important to note that person-to-person spread can happen on a continuum. Some viruses are highly contagious (like measles), while other viruses are less so. At this time, it's unclear how easily or sustainably this virus is spreading between people.

Business Problem

As the coronavirus outbreak spreads, the world's biggest companies have begun painting a bleak picture of broken supply chains, disrupted manufacturing, empty stores and flagging demand for their wares.

The announcements by businesses like Mastercard, Microsoft, Apple and United Airlines offer a reading on how the virus is affecting consumer behavior and business sentiment. These corporate bulletins — and what executives do in response — could determine how much economic damage the outbreak inflicts and whether a recession looms.

So, at this point, it is very important for businesses to understand the trend of novel coronavirus, predict its damage and take effective measures against it.

Target Audience

- Government Executives
- Business Professionals
- Any individual currently in lockdown condition

Data

1. Novel Corona Virus 2019 Dataset

Main file in this dataset is `covid_19_data.csv` and the detailed descriptions are below.

- Sno - Serial number
- ObservationDate - Date of the observation in MM/DD/YYYY
- Province/State - Province or state of the observation (Could be empty when missing)
- Country/Region - Country of observation
- Last Update - Time in UTC at which the row is updated for the given province or country. (Not standardised and so please clean before using it)
- Confirmed - Cumulative number of confirmed cases till that date
- Deaths - Cumulative number of of deaths till that date
- Recovered - Cumulative number of recovered cases till that date

Features and Examples: Recovery Trend vs Death trend can be compared and analysed
Country wise mortality rate analysis can be done

2. Foursquare Location Dataset

It provides data about different places all around the world.

Features and Examples:

Analysis of different geographic locations including exploring places, finding trending locations near a venue, exploring users and their reviews about places can be done through Foursquare location dataset.