Capstone Project - The Battle of Neighborhoods (Week 1)

Description and background of problem:

The Coronavirus is an infectious disease that has infected well over 3 million people worldwide. The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or speaks. These droplets are too heavy to hang in the air. They quickly fall on floors or surfaces. You can be infected by breathing in the virus if you are within 1 metre of a person who has COVID-19, or by touching a contaminated surface and then touching your eyes, nose or mouth before washing your hands.

The most effective way to prevent the spread of the virus is through social distancing and preventing large gatherings in any specific areas. Many countries and cities have implemented a quarantine initiative to stop the spread of the virus, however many people are losing their jobs and business are losing their income cause the economy to decline. Therefore, the quarantine period will end, and many will contract the virus.

Solution(Data):

When the quarantine end effective steps will need to be put in place to prevent the continued spread of the virus. Foursquare data will be used to identify the areas of city that a popular/trending and alert the user that the areas identified have a higher chance of spreading the virus and that users must avoid going to the specified areas. New York will be used as the test case for this solution as it is one of the cities with the highest mortality rates, mainly of African Americans.