



Study Covid-19 spread over Toronto city and identifying venues which are statistically significant in spreading using Foursquare API

Background

The World Health Organization (WHO) has declared the coronavirus disease 2019 (COVID-19) a pandemic. The virus is contagious and requires social distancing to minimize the spread. This even implies on travelling restrictions among different countries results in tempered restrictions on travelling and sealing borders. Such strict measures bring tremendous stress to global economy. Many nations have also enforced lockdown situation within country in multiple cities. Despite strict measures, many nations still struggling to stop virus to spread. Hence it becomes extremely important to identify pattern of spreading viruses and identify if there is any key places or venues which could be a possible spreading hotspot. In this project we are focusing on identify such places which are statically significant in spreading the virus. The chosen city is Toronto to study Covid-19 spread rate among different neighborhood and find the key venues which are highly significant in spreading covid-19 virus.

Introduction: Problem Statement

Generally, within the proximity of a neighborhood there could be many venues like restaurants, food trucks, library, fitness center etc., but it is not certain among all these venues, what are the key places which is involved in spreading the virus and should be avoided to visit. This is the problem statement of our study to identify key places which are more significant in spreading the virus and should be avoided. This study is done using Toronto city data.