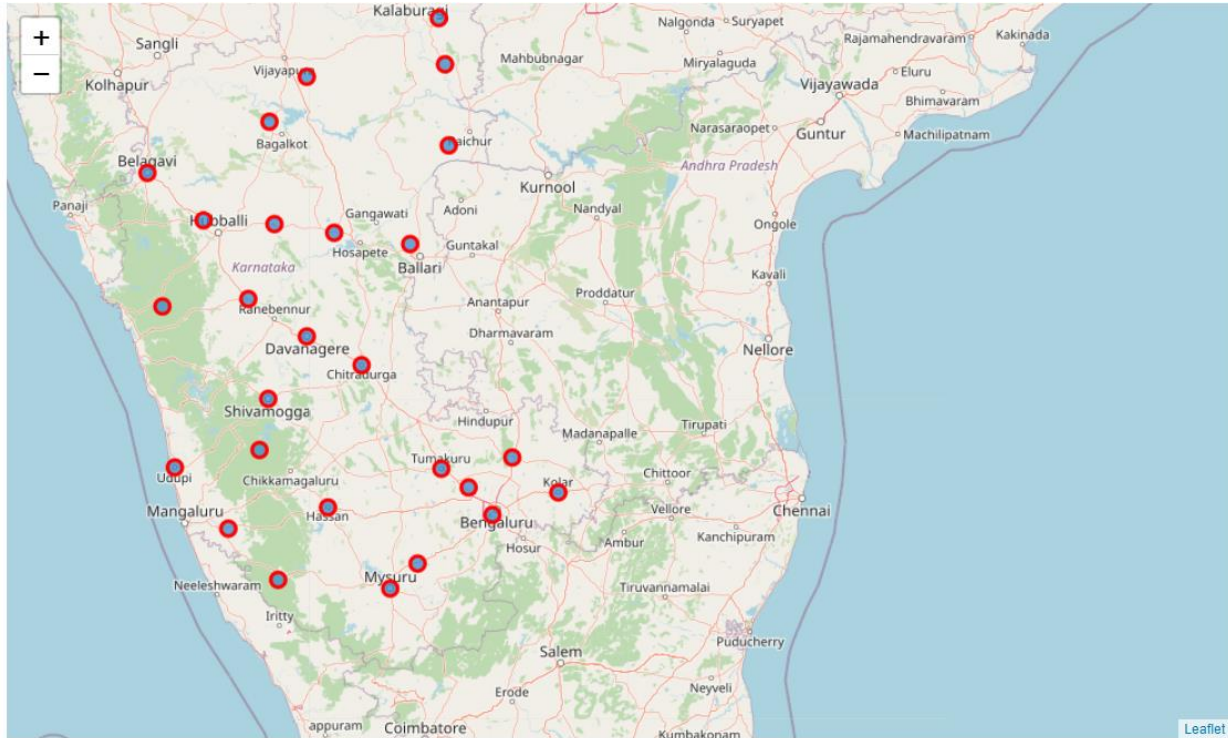


## The Battles of Neighborhoods

### Introduction- Problem Statement



**Problem Background:** The current covid 19 pandemic has affected almost all 200 countries. Several countries have been in lockdown since March 2020 and are now planning to ease the lockdown. In this project we will focus on India.

India has been in a lockdown since March 25<sup>th</sup> and is planning to lift the lockdown in zones where the number of cases is less. Lockdown remains in place in containment zones (these zones are decided by each individual state based on the number of active cases).

**Problem Description:** We look at the problem of deciding which zones to open based on the number of cases. We also take into consideration the number of different venues (restaurant, shops, malls, e.t.c.). This problem needs to be solved carefully for a state which can then be modelled across other states and help lifting the lockdown effectively.

**Data:** We will scrape data from Wikipedia for district wise coronavirus cases in Karnataka ([https://en.wikipedia.org/wiki/COVID-19\\_pandemic\\_in\\_Karnataka](https://en.wikipedia.org/wiki/COVID-19_pandemic_in_Karnataka)). We will get the venue details using foursquare API. We will look at the number of cases in each district along with the number of venues and make a decision about lifting lockdown in different districts.