Coursera Capstone –

Mask Dispenser

Introduction

This project aims on building a simple recommender for neighbourhoods where to place Mask dispenser. It should take data about how the neighbourhood should look like and return the neighbourhoods that fit the criteria best. The information that is provided to the recommender will contain features like hospitals, schools, train stations ect. The latter will be taken from the foursquare places API.

Problem

With the growth of the number of covid cases in france speacially in Paris, one must think of ways to help the community to fight this virus. The idea consists of placing Mask Dispenser in critical places wich we consider such as hospitals, schools, train stations and more.

To do a better work dispersing these dispensers, we will have to creat groups of neighborhoods in such a way that they match the density of the venues.

This will be done by creating a jupyter notebook that shows how to build a recommender based on KNN algorithm.

Data Inputs

The data that we will feed to the algorithm mainly consists of the venues we get from the Foursqare API, a dataset that contains all the Medical analysis laboratory located in paris and a table containing the 20 departement of paris wich we scrapp from a website using Beatifulsoup that we add to it the cordinates from Geocoder API.

Dataset: <https://opendata.paris.fr/explore/dataset/laboratoires-danalyses-medicales/download/?format=csv&timezone=Europe/Berlin&lang=fr&use_labels_for_header=true&csv_separator=%3B>

WebPage to be scrapped: <https://www.annuaire-administration.com/code-postal/departement/paris.html>