

Covid-19 cases & Venues Data Analysis of Stockholm

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August 15, 2020

Introduction

Covid-19 outbreak sparked a global emergency. This deadly epidemic that originated in Wohan, China, found its way to reach every country in the world. After WHO declared the outbreak a global health emergency, most countries rushed in imposing quarantines and lockdown in order to control the spread of the virus. Sweden, was one of the few countries that chose to follow another approach. In fact, Sweden's main goal was to lower the rate of infection so that the need of hospital beds does not overwhelm. The only difference is that Sweden relied on voluntary compliance of its citizens instead of enforcing strict laws that will limit the movement of essential workers. As a result, café and restaurants in Stockholm stayed open.

Business Problem

The goal of this report is to analyze the total number of Covid-19 cases in the 14 districts of Stockholm and study the correlation between the number of café in each district and the number of covid-19 cases. Was the Swedish government right by allowing Café in Stockholm to remain open? This question will be answered at the end of this report.

Data Description

Data used in this project came from different sources:

- Coordinate of Stockholm districts were found on StockholmCity website that were later used to create a choropleth map of Stockholm.[1]
- Foursquare API was used to get Café in Stockholm districts. [2]
- Google Maps was used to get the center coordinates of each districts in Stockholm.
- Covid-19 cases per district were downloaded from the official Stockholm City website responsible for publishing covid-19 news on a weekly basis. [3]. It is important to note that these data were collected up to the 31 week of 2020. Any cases after this date were not included in this report.

References:

[1]: Start. (1970, August 14). Retrieved August 15, 2020, from <https://www.sll.se/>

[2]: (n.d.). Retrieved August 15, 2020, from <https://foursquare.com/developers/apps/>

[3]: Ny rapportering av antal smittade med covid-19 per kommun och stadsdel. (n.d.). Retrieved August 15, 2020, from <https://www.sll.se/verksamhet/halsa-och-varld/nyheter-halsa-och-varld/2020/06/ny-rapportering-av-antal-smittade-med-covid-19-per-kommun-och-stadsdel/>