

Medical institutions analysis in Singapore

Introduction

Singapore is an island city-state off southern Malaysia where approximately 6 million people are living in. It is one of the most important hubs of Southeast Asia, it possesses the world second busiest port in the world, and it is the place of choice of many multinationals who decide to establish in Southeast Asia.

I just spent one year in Singapore as part of my study and through this year I worked part time with an insurance company in Singapore. Their goal was to provide very personalized insurance for expats in Singapore, because healthcare is very expensive in Singapore, there is an important need for people to choose on what they want to be insured.

Moreover it is important for people to know if there is an easy access to health services from where they live, when an expat wants to settle in a new country we want to advise him where are the neighbourhood that are close to medical centre, hospital, doctor's office, etc...

The problem I want to solve here is, how can I get an evaluation of the access to health services of each neighbourhood of Singapore. With this evaluation I will be able to tell if a neighbourhood is poorly provided or on the contrary has good access to any kind of health services.

Data

In order to solve this problematic I use the data listed below:

- First to get the name of every neighbourhood of Singapore, I went of the Wikipedia page listing all the postal code of Singapore, I saw that they provided a tab containing every postal district with their neighbourhoods in Singapore.
https://en.wikipedia.org/wiki/Postal_codes_in_Singapore
- In order to get the geolocation of every neighbourhood of Singapore, I used the geocoder library
- I used the Foursquare Api to get all the healthcare services around each neighbourhood