

BEST LOCATION FOR A CHINESE FOOD RESTAURANT

Javier Wandurraga

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1 Introduction

This project aims to find an optimal place to locate a Chinese food restaurant in Bogota, preferably close to Simon Bolivar Park. However, a site is being sought where the competition is as low as possible and for this it is required to analyze which places do not have nearby Chinese restaurants and if possible close to Simon Bolivar Park.

To find this location, data science tools will be used to find nearby neighborhoods based on the criteria of having little commercial competition and in the end determine a list of possible places with the best possible location.

2 Data

Based on the definition of the problem, the decision factors will be:

- Number of restaurants in the neighborhood
- Quantity and distance from Chinese food restaurants, if any.
- Distance to Simon Bolivar Park

The data will be taken from:

- centers of candidate areas will be generated algorithmically and approximate addresses of centers of those areas will be obtained using Google Maps API reverse geocoding
- number of restaurants and their type and location in every neighborhood will be obtained using Foursquare API
- coordinate of Simon Bolivar will be obtained using Google Maps API geocoding or Foursquare API
- coordinate of the polygons of the localities will be obtained using data of <https://bogota-laburbano.opendatasoft.com/>