Choosing the right Buenos Aires neighborhood to move to

The battle of neighborhoods

IBM Data Science Professional Certificate - Capstone Project Report

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Introduction

Moving to another city usually is a major change in people's life and a decision that should not be taken lightly. Signing a rental contract is a commitment for a long period of time and making a mistake could be costly to fix.

Characteristics and venues of the chosen neighborhood could affect habits and daily activities. In addition, every mayor city has zones safer than others, which might be unknown prior to moving to the new city. Finally, rental cost is one of the biggest monthly expenses that cannot be easily modified therefore it can have a big impact in personal monthly budget.

In this project, a particular case of a person moving from Barcelona, Spain, to Buenos Aires, Argentina will be used as an example, but the technics and methods could be extrapolated to any different case.

Data

The first step should be to characterize the origin neighborhood and the different ones in the destination city. This will be done by categorizing the most popular venues through Foursquare City Guide APIs and the population density of each city based on official census data (Argentina will be scraped and Spain is available in JSON format).

https://sig.indec.gob.ar/censo2010/?_ga=2.139240499.142017136.1591731561-616979075.1591488192

http://www.amb.cat/es/web/area-metropolitana/dades-obertes/cataleg/detall/-/dataset/densidad-de-poblacion/1060737/11692

Once the similarity between neighborhoods has been established, the top 5 safest ones will be chosen for the next step. This will be based on official data from the Security Department of Argentina (data available in a CSV file)

https://estadisticascriminales.minseg.gob.ar/#

Finally, housing rent price will be predicted based on housing requirements and current prices of available places. This information will be scraped from the main Argentinean house rental online platform.

https://www.zonaprop.com.ar/

Methodology

Results

Discussion

Conclusion