Determining the best neighbourhood to raise kids

1   Introduction

The quote 'There are three things that matter in property : location, location, location' is real estate gospel. Everyone knows that choosing the right neighbourhood to settle in when moving is important. But how do you determine the right neighbourhood ? The goal of my project is to look at the city of Barcelona in order to find out the best neighbourhood for a family to settle in. Therefore, the audience for this data science project consists of families choosing to settle in the city of Barcelona and who want to raise their kids in a stimulating environment. Families spend a lot of time and energy trying to find the right apartment or house in the right place in order to make the right choice while moving, so having data science compare factors of different neighbourhoods in order to determine the optimal one is advantageous to them.

2   Data

The data used will include Foursquare location data. A special focus is placed on the amount of Parks, Restaurants, and Family-friendly fun that can be found in the neighbourhood. The Nightlife data will also be looked at in order to determine which neighbourhoods to avoid because they might be noisy at night.

As for school data, the website https://www.elmundo.es/mejores-colegios.html provides a list of the 100 best schools in Spain, of which we can choose the ones in the province of Barcelona. The proximity to these schools of the neighbourhoods will also be considered a factor in the choice of neighbourhood.

There are 10 districts in Barcelona which we will consider : Ciutat Vella, Eixample, Sants-Montjuïc, Les Corts, Sarrià-Sant Gervasi, Gràcia, Horta-Guinardó, Nou Barris, Sant Andreu, and Sant Martí.