

Best Location for Indian Residents/Visitors in Barcelona

1. Introduction

1.1 Background

Barcelona is one of the world's leading tourist, economic, trade fair and cultural centres, and its influence in commerce, education, entertainment, sports, media, fashion, science, and the arts all contribute to its status as one of the major global cities. In 2016 about 59% of the inhabitants of the city were born in Catalonia and 18.5% coming from the rest of the country. In addition to that, 22.5% of the population was born outside of Spain, a proportion which has more than doubled since 2001 and more than quintupled since 1996 when it was 8.6% respectively 3.9%.

1.2 Problem

Since immigration has increased there are lots of Indians who travel there but they don't know which location will be most suitable for them. We wish to find a good neighbourhood for living in the city which has good Indian restaurants and other places which might interest them.

1.3 People Benefitted by the Project

People of Indian Origin who want to settle in Barcelona and people who are going there for long trips will be most benefitted. Also, tourist can use this to find neighbourhoods which will have quick access to Indian stores and veg food available. Vegetarian people are most benefitted as its difficult to find suitable food in such countries.

2. Data Acquisition and Cleaning

Data is mostly collected from Four-square and web scraping.

List of Neighbourhoods will be collected using web Scraping the following link:

https://github.com/Nakul24-1/Coursera_Capstone/blob/master/Best%20Location%20for%20Indian%20Residents.docx

For each neighbourhood, we will use Geocoder Python to get its coordinate.

Venues from Four-Square will be used. Web scraping will be used for other data which isn't available on FourSquare.

Data will be cleaned and organized then displayed in forms understandable to basic users.

Machine learning techniques will be used to classify and segment neighbourhoods.

This will help decide which one is most suitable for the person's needs.