REPORT
BEST INDIAN PLACE TO STAY IN TORONTO

INTRODUCTION

Studying abroad is one of the most exciting parts of a student's life. However, students from India do face various challenges. Despite it being the perfect opportunity to travel, meet new friends, learn a new language, amongst many other things, for some, moving from India to another country isn't an easy transition.

PROBLEM

Transition to Toronto for Higher Studies is one of the most common challenges of studying abroad is the language barrier. Perhaps you spent the last five years studying the language, but once you arrive to the country, it seems completely foreign to you. Locals are using slang you're unfamiliar with, and several words can be used to describe one thing. Trying to understand a different currency is another common challenge students face. You want to ensure you are familiar with the conversion this way you don't end up spending more money than you should. Many countries include taxes in their prices, however, international students should be aware in North American countries, taxes are not included and so they must be calculated in addition to the price presented on the product. Every country has different cultural standards. In addition to getting familiar with languages and currencies, you will have to adjust to the local culture. It's easy to begin feeling homesick when everything around you is so unfamiliar. You will miss the things you find comfort in, such as the couch in your living room and your annoying yet loving sibling. After overcoming all of these challenges, you will realize how much you truly love the country you're in. When it's time to leave, you will miss the locals, the food, and many of the small things like the cafe down the street. You will miss the freedom, the adventures, the challenges… leaving will be a challenge on its own.

DATA SELECTION

For this course we need the following data

Toronto city data about their neighborhood, postal code, Borough along with their lattitude and longitude.

Geospace data from the net to visualize the data as maps and markers.

Other indian types restaurants, caffe shops, neighborhood and other datas

EXTRACTING THE DATA

The data are extracted for the Toronto neighborhood from the wikipedia

Using the geocoder package to get the lattitude and longitude of the area and use it to construct the maps

At last Foursquare API to get the data about the datas and other things related to Indian Community

METHODOLOGY

This project will give the best places for the students to shift and stay in Toronto for their higher studies. They will be surrounded by the other similar Indian peoples will make their stay much more easier and comfortable. I have used KMeans Clustering technique for analysing the dataframe which consists of the Indian community peoples. *K*-means clustering is a type of unsupervised learning, which is used when you have unlabeled data (i.e., data without defined categories or groups). The goal of this algorithm is to find groups in the data, with the number of groups represented by the variable K. The algorithm works iteratively to assign each data point to one of K groups based on the features that are provided. Data points are clustered based on feature similarity.

RESULTS AND CONCLUSION

From the data analysis and machine learning algorithms, it is evident that most of the Indian communities are present on cluster 1. Hence it is comfortable for the people who are moving to Toronto can stay in places listed below

- East Toronto
- Central Toronto
- Downtown Toronto