

Finding the best place to live in Seattle

By: Ahmed Sherief

November, 2019



Introduction

The Seattle area is home to some of the world's most famous companies, Microsoft, Starbucks and Amazon are just three. Seattle is located on the west coast of the United States on Puget Sound, Which is connected to the Pacific Ocean. It has one of the largest ports in the country and is the closest US port to Asia It also has good connections to Alaska and Canada as well as the rest of the US. Seattle has a busy and growing international airport. Seattle's on the west side of Washington State with good connections to the major agricultural areas in the eastern part of the state. Because of its location, Seattle has a long history of international trade. In fact, 40% of jobs in Seattle are related to international trade.

It is truly a global trade hub. Seattle has a highly skilled and educated workforce. There are over 175,000 people working in the tech industry in the Seattle area and it has the biggest groups of aerospace workers in the U.S. It's also an active promoter of start-ups to develop new products and technologies. This has led to the Seattle area being one of the main recipients of investment from venture capitalists outside of California. **The targerted audience of this project is the people who seeks to find the best place to live in Seattle**

Business problem

The objective of this project is to analyze data and find the best place of living in the city to live near to all services such as hospitals, restraints, bus station, metro café, parking and gardens.....etc. using data science methodology and machine learning technique like clustering. We have to find the best cluster with the largest number of services.

Data

1. List of neighborhoods in Seattle. We have to scrape it from ([Category:Neighborhoods in Seattle - Wikipedia](#))
2. Latitude and longitude coordinates of this neighborhoods. We will get it using Python geocoder package.
3. Venue data, and we will use it to perform clustering on the neighborhoods. And we will use foursquare API to get the venue.