

Looking for the right neighborhoods in two major cities in North America: Toronto vs NYC

Introduction/Business Problem

Moving and relocating in a new city and environment can be a daunting experience. We usually look for certain features to enjoy living in a given neighborhood. How to do this when one is a complete foreigner to a city?

In this scenario, a candidate received a job offer from a company who gives her the chance to work in either their Toronto or New York offices. She is interested to know if these cities offer what she looks for in a potential neighborhood to settle in: parks to enjoy walks, and Chinese restaurants, her favorite kind of food.

We will try to identify neighborhoods with these features so it can help the new employee choose a potential neighborhood which fits her preferences.

Data

For the city of Toronto, list of neighborhoods will be retrieved from a Wikipedia page (https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M), an online encyclopedia. The list of venues and places of interest will come from FourSquare, a geolocation platform.

For the city of New York, list of neighborhoods will be retrieved from an existing online dataset (https://cocl.us/new_york_dataset). The list of venues and places of interest will also come from FourSquare.

Most of the data will be usable as is. The Wikipedia will be pulled out using the BeautifulSoup library.

For both cities, we will list the existing neighborhoods, list the various venues established in them, identify what kind of venues are mostly present in each neighborhood. We will then search for neighborhoods with both parks and Chinese restaurants and see if it yields any results.