**A picture containing outdoor, grass, tree, day

Description automatically generated**

**Parks and Recreation: Assessing Parks in Toronto**

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1. **Introduction:**
2. **Problem:**

Parks are an essential part of urban management. Parks provide environmental, aesthetic, and recreational benefits to cities. They also bring about positive economic benefits; enhancement of property value, increasing municipal revenue, and bringing in homebuyers and workers.

In order to enhance the condition of parks in cities, many municipalities include Parks and Recreation departments that are responsible for overseeing the condition of existing parks and building new ones.

Toronto, Canada’s economic capital, is well known for its beautiful parks and recreational spaces. In this project, we will aim to assess the situation of parks in Toronto. This will be done by identifying the boroughs that do not contain any parks, and that thus demand special attention from the parks and recreation department, then we will assess visitors’ satisfaction with existing parks in Toronto as a means to see which boroughs need special park revamping.

1. **Audience:**

This project would be of interest to many stakeholders:

* The parks and recreation department: this project would provide the department with up-to-date data about the situation of parks in the city. This data would thus give them valuable insights and help them make decisions.
* Visitors and dwellers of Toronto: This project would provide visitors and dwellers of the city of Toronto with information about the best parks in the city, based on ratings on Foursquare.
* Urban planning researchers: the data extracted through this project could also be helpful for anyone who would like to know more about the condition of parks in the city of Toronto.

1. **Data:**

The raw data used in this project has been taken from multiple sources:

1. **Information about Toronto, its boroughs, and its neighborhoods:**

This information was retrieved from the following Wikipedia page: <https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M>

This page contains, in tabular format, the different postal codes, boroughs, and neighborhoods that make up the city of Toronto.

1. **Geospatial data:**

For further analysis, geospatial data, chiefly latitude and longitude, were needed. This information was retrieved from two sources:

* GeoPy, a python client for several popular geocoding web services.
* The csv file Geospatial\_coordinates.csv, which offers the geospatial data from each neighborhood in Toronto.

1. **Venue data:**

In order to know the venues in the city of Toronto and the customer satisfaction with parks, we used Foursquare API, which offers real-time data about venues in cities across the globe as well as ratings, likes, and tips submitted by Foursquare users who have visited these specific venues.

1. **Methodology:**
2. **Results:**
3. **Discussion:**
4. **Conclusion:**