

The background features a series of concentric circles in light gray, some solid and some dashed, creating a ripple effect. A large red speech bubble is centered on the page, containing the main text.

Capstone – Final Best location for a restaurant in Manitoba, Canada

Ganesh, May 2019

Introduction

- Successful restaurant chain in the eastern region of Canada seeks to expand to Manitoba
- Restaurant Owner wants to mostly avoid the competition while having attractions nearby
- Owner wants to make use of data analytics to decide the most beneficial location to start his new restaurant.



Data

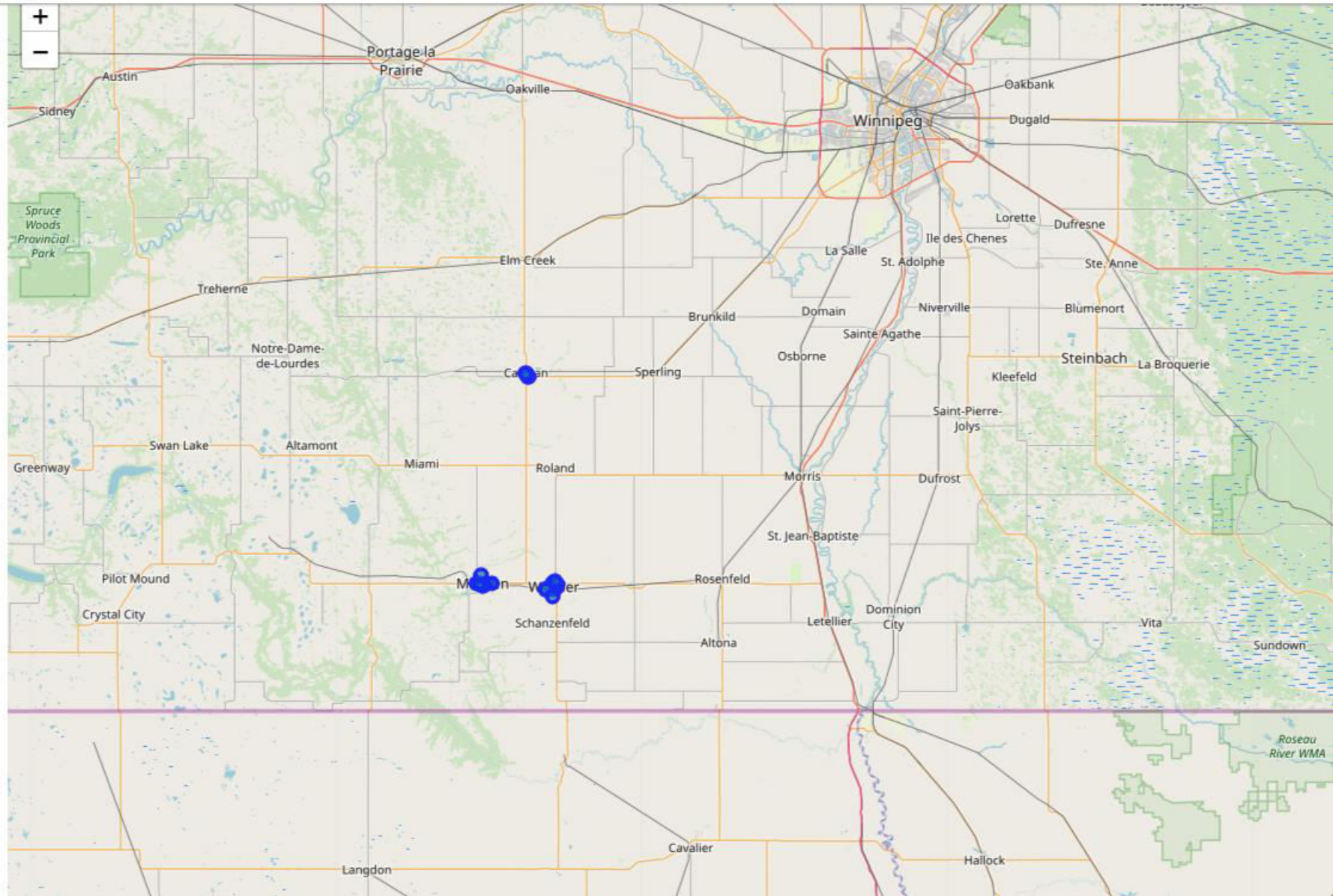
- This project relies on public data from
 - - Wikipedia
 - - FourSquare.
- List of communities in Manitoba by population has been retrieved from Wikipedia (https://en.wikipedia.org/wiki/List_of_communities_in_Manitoba_by_population)
- Details about the venues in Manitoba had been received from Foursquare API.
- Additional work on marking attractions and identifying competition had performed by owner of the restaurent chain on a scale of 0-10 (0-low 10-high).

Methodology

- Retrieved the list of communities in Manitoba by Population.
- Able to get the location coordinates using geopy
- Obtained all the venues in neighborhood in Manitoba using FourSquare API
- Assign weights to each venue by taking attraction and competition into account.
- Use Kmeans clustering algorithm to compute clusters and the cluster with highest average weight is the best location for the restaurent.

Recommendati on

- Our analysis shown that the best location for the restaurant is near Winnipeg out of all communities in Manitoba.
- To be precise, The Location is near highway 14, Winkler, Winnipeg. This is inline with what we are expecting..
- Map shown on the next slide





Thank you