# Capstone Project

Suggest a neighbourhood for Noah to open a pizzeria that can give good business.

### Introduction

- Noah is from East York, Canada who wants to open a pizzeria in East York.
- He intends to make maximum business
- He wants to avoid clashes with existing pizza places.
- So, our work here is to help Noah find the best neighbourhood in East York to open his pizzeria considering all these constraints.

#### **Business Problem**

- To find out the best neighbourhood to open the pizzeria.
  - Information about all the neighbourhoods in Toronto.
  - Analyze each neighbourhood in terms of potential customers and competitions.

#### Data

To address the problem in hand we would need the following data;

- The neighbourhoods of Toronto, Canada.
- Geospatial data for these neighbourhoods, to obtain Foursquare data
- Foursquare data for exploring the neighbourhoods in terms of various pizza places, schools, offices and parks in various neighbourhoods of East York, Toronto.

## Methodology

- Neighbourhoods from East York are to be extracted.
- Foursquare data for these neighbourhoods for the selected venue categories are procured.
- Count of each of the venues in each neghbourhood is calculated.
- Weights were assigned to each of these categories based on its importance with respect to the problem
- A popularity score was computed as a weighted sum of each of these catgories

#### Results

|   | Neighbourhood    | Popularity Score |
|---|------------------|------------------|
| 4 | Thorncliffe Park | 17.0             |
| 0 | Woodbine Gardens | 16.5             |
| 1 | Parkview Hill    | 16.5             |
| 2 | Woodbine Heights | 13.5             |
| 5 | East Toronto     | 9.5              |
| 3 | Leaside          | 7.5              |

- Thorncliffe Park with a Popularity Score of 17.0 is the best neighbourhood to open a pizzeria.
- Woodbine Gardens and Parkview Hill with score of 16.5 are the next options.

So, the best place for Noah to open his pizzeria in East York is Thorncliffe Park