Restaurant prediction system
IBM Professional certification of Datascience

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Objective

- Identify the location of different kind of venues in the city.
- Identify the demand and availability of the required kind of restaurant in the city using clustering
- Make a prediction using the obtained data

Introduction

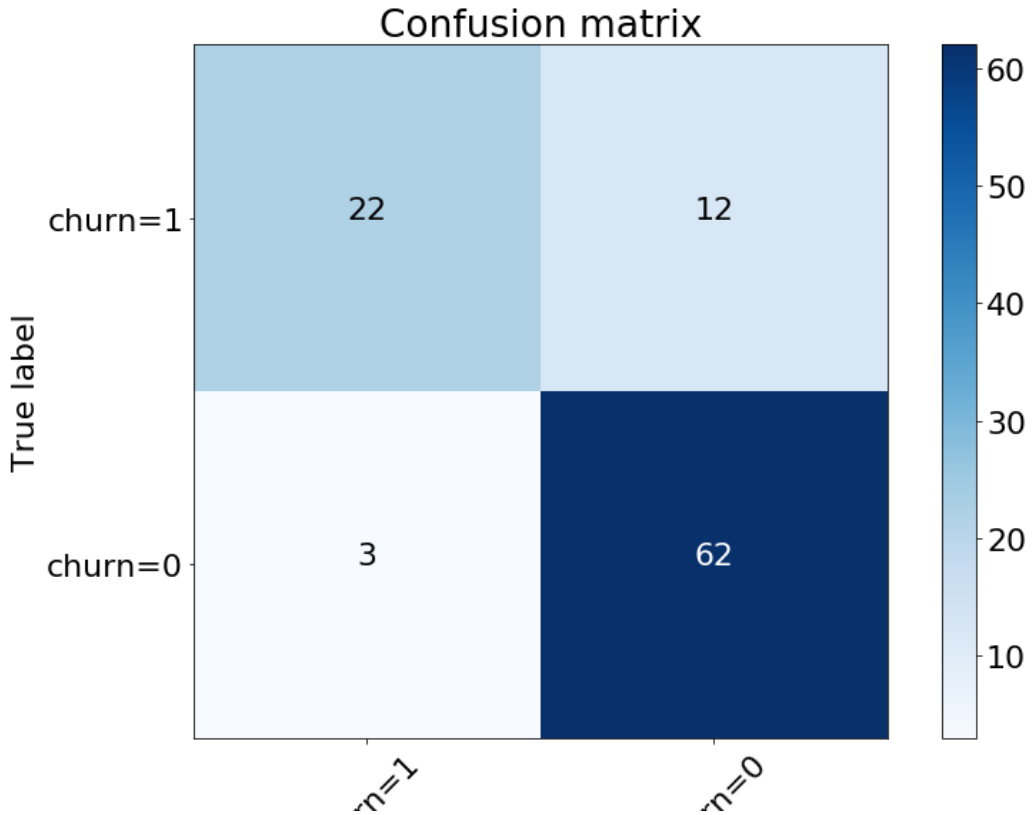
In this project we can figure out for the businessman in Toronto, who will require opening a restaurant. We will figure out which location will suit the businessman to open the restaurant, specifically a cafe. In this project, we can assume the bet location, and the place of interest for the people who will be interested for the Café near their location.

METHODOLOGY

- Collect data of location using the Foursquare API and the data of venues by scrapping the Wikipedia page of Toronto location
- A logistic regression model created by using 50 venues with in 1km of radius
- Create a regression multivariate model using the neighborhood and the frequency if a café in the location

Results

- Results of the logistic regression, where a café should present in a cluster.



Results- cont

- Correlation between frequency of a café and other resturant
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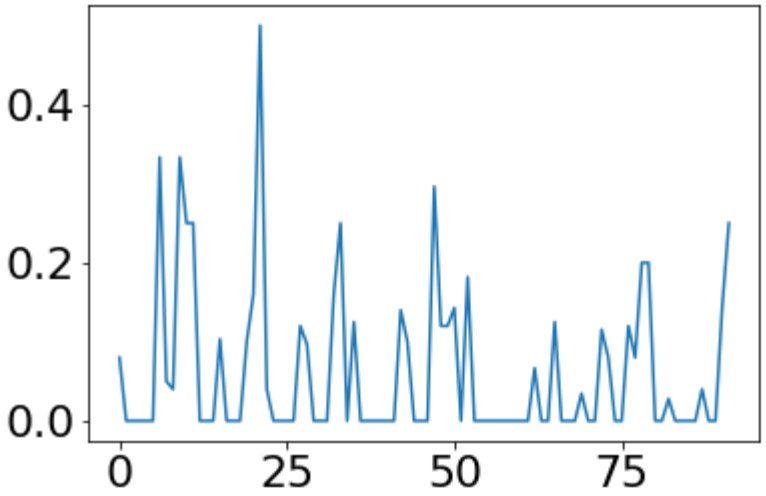

CONCLUSION

- In the project, a problem statement has been acquired and a solution to it has been provided.
- There are scope of improvement in the problem where we can check other kind of restaurants and provide solution to the investors a better model.