Toronto Neighborhoods' Business and their influence on Crime in 2020

Applied Data Science Capstone

IBM Data Science Professional Certi

Alberto Carrillo Ortega
professional.acarrillo@gmail.com

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Introduction

In the next few pages, I intent to gain some insight in the relationship between a given set of business/venues in a neighborhood on the city of Toronto, and the crime rate of that community.

I aim to answer some question such as:

- Is there a correspondence between a predominant type of business and an exceptional high or low criminality?
- Are more diverse neighborhoods less crime prone?
- What characterizes neighborhoods of notable delinquency?

Common sense could provide some answers to some of these questions. For example; one might come to the conclusion that nightlife related neighborhoods rank higher in criminality rates. Or that more "family friendly" ones, those which have a bigger diversity and presence of places like parks and schools and less crime related.

However, is essential to contrast these mental constructs with information extracted from real-world data. It might be the case that nightlife zones are more conflictive, but it might also be the case that parks are hot spots of crime. To answer these questions and give some prescriptive claims we ought to arm ourselves with information.

This information will be extracted from two data sources: Toronto Open Data for crime rates in each neighborhood, and Foursquare API for business and landmarks in each region.