# Final Paper

for INF 412 (J. Wang) April 7, 2023

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#### Abstract

Using a number of statistical methods, we train regression models with data regarding the locations of cannabis dispensaries and private businesses in the city of Toronto. These models, in turn, are designed to predict where in the city the next cannabis retail location is most likely to open. After narrowing our scope of investigation to ten types of businesses and the 102 Forward Sortation Areas of Toronto, as used by postal services, our model reports a number of statistically-significant correlations between the presence of given businesses in a region and the establishment of dispensaries. A secondary model is also proposed, simplifying its predictors using the Akaike Information Criterion and K-fold Cross Validation to achieve accuracy in excess of 80%. Limitations to this study are also discussed, including a comparative dearth of dispensary information – in particular those many retail locations in Toronto that are not directly licensed by the province of Ontario – and a lack of other constraints outside of nearby businesses to predict dispensary counts in fairly large geographic areas.

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## Contents

### Introduction

With currently 417 marijuana dispensaries in the city of Toronto, and more likely to be opened in the near future, it begs the question as to where the next dispensary might open. The Alcohol and Gaming Commission of Ontario's iAGCO map displays currently opened dispensaries, and while this information is important to consider, it offers little in the way of ascertaining where a new dispensary might open next. Our group is curious as to what factors influence the location of a new dispensary, particularly the presence of different types of businesses in the area. By performing a logistic regression, our group hopes to predict the likeliest location for a new dispensary based on different types of nearby businesses.

### Background

First among the two sources we consulted for this assignment was Planning for Marijuana: The Cannabis Conundrum, by Jeremy Németh & Eric Ross. The stated purpose of this article was to explore the local regulation of medical marijuana dispensaries in various states in the US, and by what factors are different zones determined as eligible for new dispensaries, and which factors inhibit the construction of a medical marijuana dispensary (MMD). Of information that was particularly relevant to use, this report found that so-called "buffers" severely diminished an MMD's chances of being built in a given neighborhood. These buffers included the existence of other MMDs, but also "sensitive facilities" such as childcare centres, churches, libraries, parks, and also cinemas, recreation centres, and tobacco stores. Furthermore, these buffer businesses included bars, fast food restaurants, and liquor stores on the basis of resident's concerns of crime and further diminishing property values.

Our second source is Locating Medical and Recreational Cannabis Outlets for Research Purposes: Online Methods and Observational Study, an effort to determine the means of locating and observing both licensed and unlicensed dispensaries in Los Angeles County. While the main objective of this study was to determine which of the located dispensaries were open for business, the study also contained additional details regarding the dispensaries in question. Of interest to us was the finding of how 40.6% of identified dispensaries had a tobacco store in close proximity.

#### Data

#### Dispensaries

In the province of Ontario, all cannabis retail locations must be issued a license by the Alcohol and Gaming Commission of Ontario ("Status of Current Cannabis Retail Store Applications," n.d.) before opening. If the application is not rejected outright, the location owners must place a 'Public Notice' placard in their proposed store for a 15-day period before the ACGO will consider approving the application and allowing cannabis sales to begin. The ACGO maintains an online directory of all current applications, regardless of status, across the province, as well as a corresponding interactive map.

This map, ulimately, is fed by a CSV file on the ACGO webserver ("Status of Current Cannabis Retailer Map." n.d.). The URL to this CSV is accessible to the public without credentials, and is available for

download; see line 11 in scripts/fetch-and-clean-data.r. Within is a wealth of data for Ontario dispensary applications, including names, addresses, application status, geographic coordinates, and more. For the purposes of this paper, we excluded any application which did not satisfy the following:

- 1. The application status must be **Authorized to Open**, i.e., neither rejected nor currently in public notice at the time of download; and
- 2. The dispensary's postal code must begin with M, which indicates that the address is serviced by a Toronto FSA<sup>1</sup>.

Filtering by these two criteria, we were left with a total of 416 open dispensaries within the City of Toronto, from each of which we retained only the FSA and, for plotting purposes, latitude and longitude. Other identifying details, such as specific addresses and store names, were discarded.

#### **Businesses**

Through the Open Data Toronto initiative, the City of Toronto offers to the public a listing of all current business licenses<sup>2</sup> issued within the Greater Toronto Area. Along with business information and addresses, the data also featured the category of business under which the issued license falls. These are also available for download in multiple useful formats, such as CSV. ("Open Data Dataset," n.d.)

The data were filtered again by the first letter of their postal code to limit addresses to those within the City of Toronto. However, this still resulted in 10 different business categories. For the purpose of this paper, we limited our data to only 10:

name
HOLISTIC CENTRE
EATING ESTABLISHMENT
ENTERTAINMENT ESTABLISHMENT/NIGHTCLUB
PAWN SHOP
PAYDAY LOAN
SIDEWALK CAFE
RETAIL STORE (FOOD)
SMOKE SHOP
VAPOUR PRODUCT RETAILER
ADULT ENTERTAINMENT CLUB

For a total of 69,141 suitable businesses. For each of these businesses, only the FSA and category were retained.

Business types These ten business types were chosen through a combination of our background research, such as including vapour products in relation to Pedersen et al. (2020); total quantities throughout Toronto to prevent data scarcity issues with prediction; and intuition. Apart from reducing the dimensionality of our predictors to a more manageable and presentable volume, analyzing this smaller number of types of businesses will also allow us to more closely follow the methods present in e.g., Németh and Ross (2014).

#### Forward Sortation Areas (FSAs)

Using data drawn from the Census, the Canadian federal government subdivides the geography of Canada into 1,620 unique **Forward Sortation Areas**, or FSAs (Superintendent of Bankruptcy 2019). Each address found within an FSA shares the same first three characters of their postal code, which makes these three

<sup>&</sup>lt;sup>1</sup>This is a useful heuristic for discriminating what addresses are "within" the City of Toronto.

<sup>&</sup>lt;sup>2</sup>i.e., those private business licenses that can be issued at the City's discretion, excluding e.g., liquor and cannabis retail locations.

characters a convenient shorthand for a particular region of Canada for purposes of shipping, travel, and more. Conveniently, the City of Toronto is so large that it gets its own prefix for FSAs: M. This is why the dispensary and business license data were filtered to those whose postal codes began with M above.

For the purposes of this paper, a series of shapefiles (DMTA 2005) outlining the FSAs was downloaded from the UofT digital library. Although the file was uploaded in 2005 and Toronto's FSAs have changed slightly in 2023, we considered this a minor issue for the purposes of our experiment. Note that, although the source code<sup>3</sup> for this paper is available online, this shapefile is proprietary and can only be accessed by UofT faculty and staff with valid credentials.

# Methodology

In this project, we aim to predict whether there is a sufficient number of cannabis dispensaries in each Forward Sortation Area (FSA) in the city of Toronto. To do this, we used data on cannabis retail locations from the Alcohol and Gaming Commission of Ontario (AGCO) and business license data from the Open Data Toronto initiative. We filtered the data based on specific criteria and used logistic regression to build a predictive model.

### Assumptions

- 1. The postal codes, and by extension FSAs, provided in the dataset are accurate and up-to-date with the dispensaries and businesses in Toronto.
- 2. The more frequent certain business types are, the greater the chance a dispensary will be there too.
- 3. Dispensaries propagate beside each other, as in Hotelling (1929).

#### **Data Filtering and Preparation**

As mentioned in the introduction section, we have filtered our dispensary data by their application status, where we only included dispensaries with an "Authorized to Open" status. Since our analysis will only focus on the city of Toronto, we will be only considering dispensaries and businesses within the City of Toronto by focusing on postal codes starting with "M"

Due to a large number of business categories, we further narrowed down our focus to 10 specific categories (types of business) that would have the most impact on the location of dispensaries based on our background research. Meanwhile, we retained the FSA, latitude, and longitude of each dispensary for further analysis.

#### **Data Visualization**

Scatterplots were created to visualize the relationship between our binary dependent variable (1 if the FSA has more than or equal to 3 dispensaries, 0 if less than 3 dispensaries) and the independent variables (the 10 selected business categories). Additionally, we used the SF package in R to create spatial visualizations, showing the locations of dispensaries and the density of each business type within each FSA based on the assumption that dispensaries propagate beside each other.

#### Logistic Regression Model

To predict whether an FSA has a sufficient number of dispensaries, we built a logistic regression model, considering the assumption that the more frequent a business type is, the greater the chance a dispensary will be there too. The binary dependent variable was created based on the dispensary count in each FSA,

<sup>&</sup>lt;sup>3</sup>https://github.com/oliver-daniel/inf\_412\_final\_project

with a class of 1 if there were more than or equal to 3 dispensaries and 0 if there were fewer than 3 dispensaries. The independent variables were the counts of the selected business categories within each FSA. Upon building our initial model, we performed model selection using the Akaike Information Criterion (AIC) in both directions, which reduced the number of independent variables from 10 to 6. In this context, choosing the model with the lowest AIC helped us reduce the number of independent variables from our initial model as it provides a better balance between goodness-of-fit and model complexity. The AIC helped identify the best model among a set of candidate models by penalizing models with too many parameters, preventing overfitting.

The benefits of testing AIC on our model can be summarized as follows:

- 1. **Penalize model complexity**: AIC includes a penalty term for the number of parameters in the model, which discourages overfitting. This penalty term increases with the number of parameters, making models with a higher number of independent variables less favourable unless they provide a significant improvement in goodness-of-fit.
- 2. Balance goodness-of-fit and simplicity: AIC aims to find a model that best explains the data while remaining as simple as possible. It takes into account both the goodness-of-fit (measured by the likelihood) and the complexity of the model (measured by the number of parameters). Lower AIC values indicate a better balance between the two.
- 3. Model comparison: AIC provides a metric for comparing different models and helps in selecting the best model among a set of candidate models. When using AIC for model selection, the model with the lowest AIC value is considered the best.
- 4. Considers sample size: AIC takes into account the sample size, making it suitable for different sample sizes. It tends to favour more complex models when the sample size is large and simpler models when the sample size is small.

By selecting the model with the lowest AIC value, we aimed to find the best balance between model complexity and goodness-of-fit, ultimately leading to a model that generalizes well to new data and avoids overfitting.

#### Model Validation

To validate our logistic regression model, we employed k-fold cross-validation. The model achieved an accuracy rate of 0.85 and a kappa of 0.71, indicating a good level of performance in predicting whether an FSA has a sufficient number of dispensaries based on the selected business categories and our assumptions.

In summary, our analysis involved filtering data on dispensaries and businesses, creating visualizations to explore relationships between variables based on our assumptions, and building and validating a logistic regression model to predict whether an FSA has a sufficient number of dispensaries. The model demonstrated good performance in predicting the sufficiency of dispensaries in each FSA based on the selected business categories and the assumptions we made.

#### Results

#### Scatter plots

For the plots shown below in Figure 1, note the free scales for both axes.

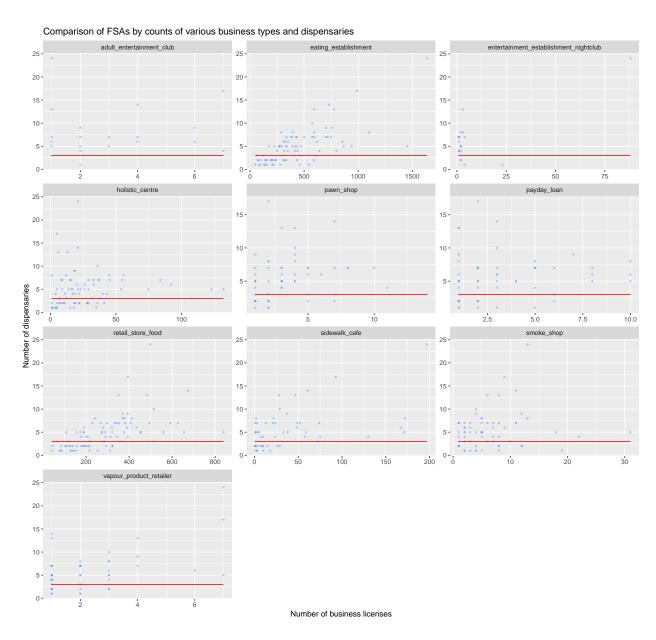


Figure 1: The red horizontal line represents the delineation between class-0 and class-1 FSAs: the dots found above the line represent those FSAs which have at least 3 dispensaries, and vice versa.

# Spatial Visualization

Count map of Adult entertainment club per FSA of Toronto

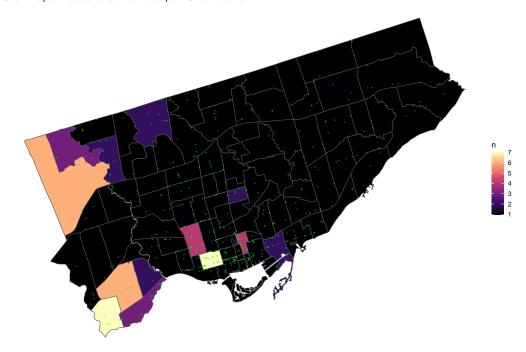


Figure 2: The green dots in each chloropleth map represent the location of dispensaries.

Count map of Eating establishment per FSA of Toronto

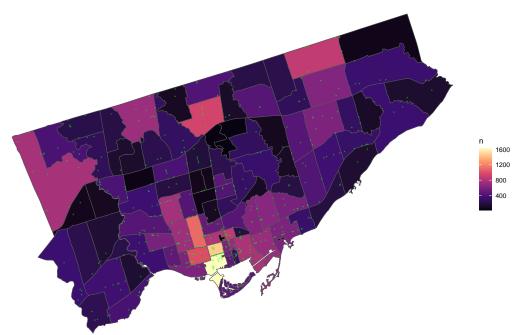


Figure 3: The green dots in each chloropleth map represent the location of dispensaries.

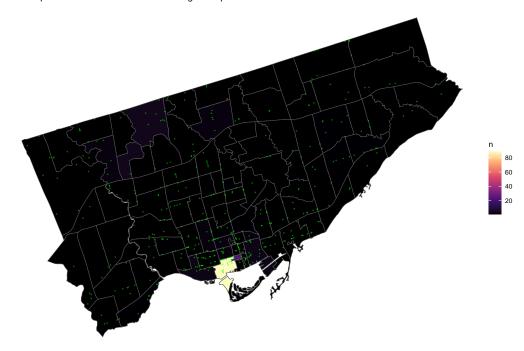
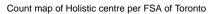


Figure 4: The green dots in each chloropleth map represent the location of dispensaries.



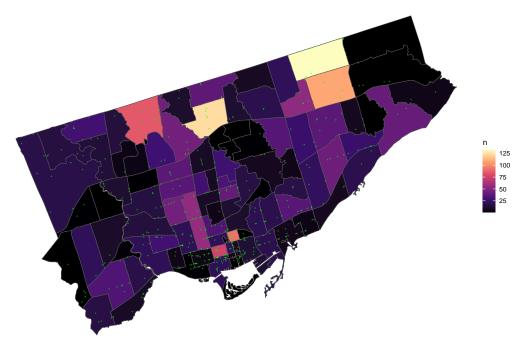


Figure 5: The green dots in each chloropleth map represent the location of dispensaries.

### Count map of Pawn shop per FSA of Toronto

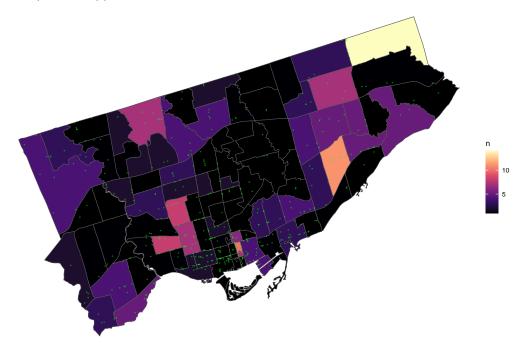


Figure 6: The green dots in each chloropleth map represent the location of dispensaries.

### Count map of Payday loan per FSA of Toronto

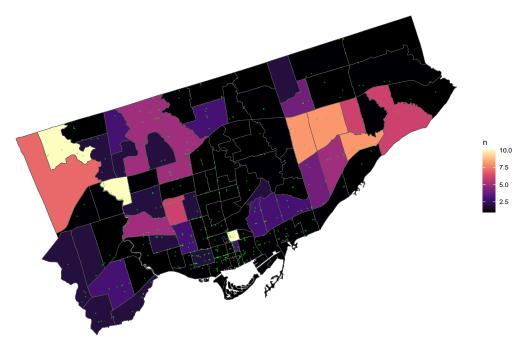


Figure 7: The green dots in each chloropleth map represent the location of dispensaries.

### Count map of Retail store food per FSA of Toronto

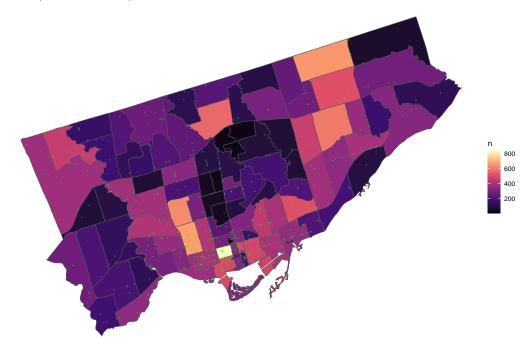


Figure 8: The green dots in each chloropleth map represent the location of dispensaries.

# Count map of Sidewalk cafe per FSA of Toronto

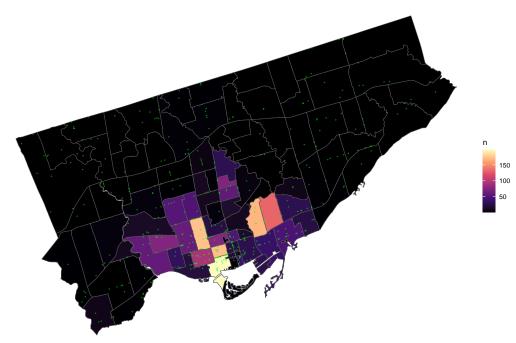


Figure 9: The green dots in each chloropleth map represent the location of dispensaries.

### Count map of Smoke shop per FSA of Toronto

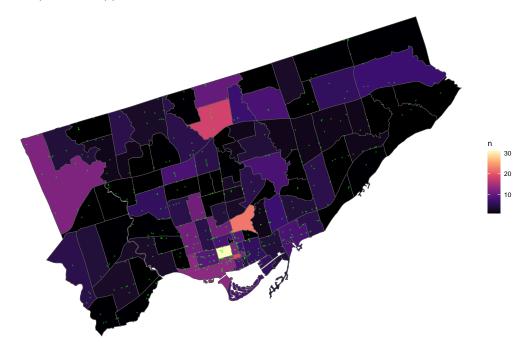
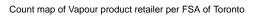


Figure 10: The green dots in each chloropleth map represent the location of dispensaries.



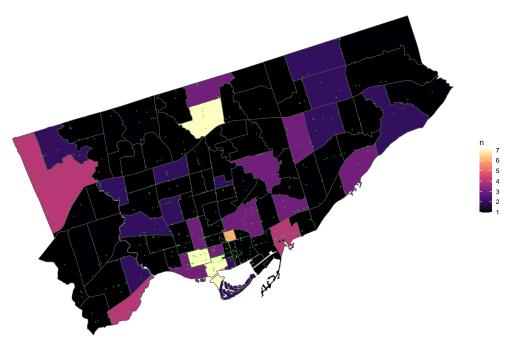


Figure 11: The green dots in each chloropleth map represent the location of dispensaries.

Table 1: Data Summary

Unique (#)	Missing (%)	Mean	SD	Min	Median	Max	
15	0	4.1	3.9	0.0	3.0	24.0	
2	0	0.5	0.5	0.0	1.0	1.0	
94	0	371.1	297.5	0.0	308.5	1635.0	
45	0	21.1	25.3	0.0	15.0	132.0	
12	0	2.0	2.7	0.0	1.0	14.0	
10	0	1.8	2.5	0.0	1.0	10.0	
94	0	254.4	167.8	0.0	218.5	838.0	
18	0	4.4	5.2	0.0	3.0	31.0	
7	0	1.2	1.6	0.0	1.0	7.0	
7	0	0.6	1.5	0.0	0.0	7.0	
7	0	1.4	9.0	0.0	0.0	88.0	
37	0	19.6	39.7	0.0	1.0	197.0	L
	15 2 94 45 12 10 94 18 7 7	15 0 2 0 94 0 45 0 12 0 10 0 94 0 18 0 7 0 7 0	15 0 4.1 2 0 0.5 94 0 371.1 45 0 21.1 12 0 2.0 10 0 1.8 94 0 254.4 18 0 4.4 7 0 1.2 7 0 0.6 7 0 1.4	15 0 4.1 3.9 2 0 0.5 0.5 94 0 371.1 297.5 45 0 21.1 25.3 12 0 2.0 2.7 10 0 1.8 2.5 94 0 254.4 167.8 18 0 4.4 5.2 7 0 1.2 1.6 7 0 0.6 1.5 7 0 1.4 9.0	15 0 4.1 3.9 0.0 2 0 0.5 0.5 0.0 94 0 371.1 297.5 0.0 45 0 21.1 25.3 0.0 12 0 2.0 2.7 0.0 10 0 1.8 2.5 0.0 94 0 254.4 167.8 0.0 18 0 4.4 5.2 0.0 7 0 1.2 1.6 0.0 7 0 0.6 1.5 0.0 7 0 1.4 9.0 0.0	15	15       0       4.1       3.9       0.0       3.0       24.0         2       0       0.5       0.5       0.0       1.0       1.0         94       0       371.1       297.5       0.0       308.5       1635.0         45       0       21.1       25.3       0.0       15.0       132.0         12       0       2.0       2.7       0.0       1.0       14.0         10       0       1.8       2.5       0.0       1.0       10.0         94       0       254.4       167.8       0.0       218.5       838.0         18       0       4.4       5.2       0.0       3.0       31.0         7       0       1.2       1.6       0.0       1.0       7.0         7       0       0.6       1.5       0.0       0.0       7.0         7       0       1.4       9.0       0.0       0.0       88.0

### Logistical Model

#### Logistical Model before AIC

```
##
## Call:
## glm(formula = class ~ adult_entertainment_club + eating_establishment +
      entertainment_establishment_nightclub + pawn_shop + payday_loan +
      sidewalk_cafe + retail_store_food + smoke_shop + vapour_product_retailer +
##
##
      holistic_centre, family = binomial, data = fsa_counts_pivot)
##
## Deviance Residuals:
##
                                     3Q
       Min
                 1Q
                       Median
                                             Max
                      0.00316
                                0.27078
## -2.17463 -0.36213
                                          2.27962
##
## Coefficients:
                                        Estimate Std. Error z value Pr(>|z|)
##
## (Intercept)
                                       ## adult_entertainment_club
                                       1.336171 0.766515
                                                            1.743 0.0813 .
## eating_establishment
                                       -0.003192 0.007176 -0.445
                                                                    0.6565
## entertainment_establishment_nightclub -0.151355
                                                  0.088613 -1.708
                                                                    0.0876
## pawn_shop
                                        0.307465
                                                 0.142403
                                                            2.159
                                                                   0.0308 *
## payday_loan
                                        0.084086
                                                  0.252652
                                                           0.333
                                                                    0.7393
## sidewalk_cafe
                                                  0.039893
                                                                    0.0458 *
                                        0.079679
                                                             1.997
## retail_store_food
                                        0.013875
                                                  0.009294
                                                             1.493
                                                                    0.1355
## smoke_shop
                                        0.137796
                                                  0.125182
                                                             1.101
                                                                    0.2710
## vapour_product_retailer
                                       -0.005302
                                                  0.402971 -0.013
                                                                    0.9895
## holistic_centre
                                        0.012478
                                                  0.025183
                                                             0.495
                                                                    0.6203
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
```

```
## Number of Fisher Scoring iterations: 7
Logistical Model after AIC
##
## Call:
## glm(formula = class ~ adult_entertainment_club + entertainment_establishment_nightclub +
       pawn_shop + sidewalk_cafe + retail_store_food + smoke_shop,
##
##
       family = binomial, data = fsa_counts_pivot)
##
## Deviance Residuals:
##
       Min
                   1Q
                         Median
                                       3Q
                                                Max
## -2.24204 -0.35733
                        0.00313
                                            2.21545
                                  0.24148
##
## Coefficients:
##
                                          Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                                         -4.343323
                                                     0.940682 -4.617 3.89e-06 ***
## adult_entertainment_club
                                          1.260875
                                                     0.716272
                                                                1.760 0.07835 .
## entertainment_establishment_nightclub -0.158938
                                                     0.082962
                                                               -1.916 0.05539 .
## pawn_shop
                                          0.333935
                                                     0.145720
                                                                2.292 0.02193 *
## sidewalk cafe
                                          0.065309
                                                     0.030859
                                                                2.116 0.03431 *
## retail store food
                                          0.012686
                                                     0.003958
                                                                3.205 0.00135 **
                                          0.081374
                                                     0.086408
                                                                0.942 0.34632
## smoke_shop
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 140.420 on 101 degrees of freedom
## Residual deviance: 55.291
                                       degrees of freedom
                              on 95
## AIC: 69.291
## Number of Fisher Scoring iterations: 7
Exponentiate the coefficients
##
                             (Intercept)
                                                      adult_entertainment_club entertainment_establishm
##
                              0.01299327
                                                                    3.52850902
##
                              smoke_shop
                              1.08477647
##
```

Null deviance: 140.420 on 101 degrees of freedom

## Residual deviance: 54.726 on 91 degrees of freedom

## ##

## AIC: 76.726

K-fold cross-validation

6 predictor

## 102 samples

##

## Generalized Linear Model

```
## 2 classes: '0', '1'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 91, 91, 93, 93, 92, 92, ...
## Resampling results:
##
## Accuracy Kappa
## 0.8521212 0.7068956
```

# Discussion

#### **Data Summary**

The summary statistics, as shown in Figure 1, express the distribution of the individual predictors across FSAs with the histogram bars on the side. The unique value explains the different kinds of categories within the predictors. What is interesting to note here is that some of the unique values repeat among the different groups. This may be indicative of double counting (i.e. a eating establishment also licensed as a retail food store). The data summary does a sufficient job in expressing the central tendency measures of the individual predictors which comes in handy when trying to understand distributions of the dataset. This graph would not be possible without the help of Skimr and Model Summary [cite skimr and cite model summary].

### Conclusion

Our regression model indicates that at least certain types of businesses are significantly (p < 0.05) correlated to the likelihood of dispensaries being opened in an arbitrary FSA-sized region of Toronto. Simple improvements, such as reducing the dimensionality of the prediction space using AIC as a heuristic and K-fold Cross Validation, proved effective in improving predictive power to up to 85. Where higher numbers of dispensaries have already been opened, often the most densely populated regions of the city, co-location of multiple dispensaries in close proximity may indicate the longer-term stability of retail cannabis in those areas. However, statistical modelling can prove to be an effective tool in determining which geographic regions may be hospitable to a burgeoning cannabis market, inviting early investment and temporarily enjoying the dividends of low competition.

#### Considerations

#### Data is sparse

Being only a few years removed from legalization, cannabis retail is still in its nascent stages, with even more veteran markets being only a few years its senior. The scene is changing daily, and it is difficult even for licensing bodies like AGCO to track the opening and closing of new locations. This is especially true of grey-market dispensaries, such as First Nations-owned locations which operate on the fringes of treaty law. Although efforts exist to collect and list them, primarily for consumer-facing purposes, there is a distinct lack of verified, up-to-date data on these locations. It would be of particular interest to investigate these locations and their market penetration through further study.

#### Possible confounding factors

The scope of our study fails to control for a number of important factors, which could bear significant impact on our statistical findings. These include:

**Population** The high variance in population density across the City of Toronto is a latent variable that affects the density of dispensaries and other businesses alike: where there are more people, there will certainly be more establishments to serve them. It is unknown to what extent our model accounts for this, and it is possible that certain signficant factors for dispensary presence in an FSA could be reliant on data only from downtown regions.

Regulations and public infrastructure Our dataset includes only private business addresses, excluding non-business institutions such as schools, places of worship, and entrances to public and government infrastructure. Future research into the legal constraints of dispensary location – distance from schools, by-law regulations, etc. – may indicate other forces acting on the location of the next dispensary when estimating.

Geospatial granularity The choice to use the 102 FSAs<sup>4</sup> of the City of Toronto as geographic subdivisions was a largely arbitrary one, looking to balance predictive power with visibility and performance when authoring this paper. Other options considered included the electoral ridings or neighbourhood designations of the city; an arbitrary quadrilateral or hexagonal grid, overlain atop a map of Toronto; and even a Voronoi cell system connecting adjacent street intersections into "blocks". Each of these was deemed unsuitable for varied reasons, but future reproductive studies may wish to test whether our results are repeatable on coarser- or finer-grained geographic scales.

 $<sup>^{4}</sup>$ As of 2005.

### References

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- "Open Data Dataset." n.d. City of Toronto Open Data Portal. https://open.toronto.ca/dataset/municipal-licensing-and-standards-business-licences-and-permits/.
- Pedersen, Eric R, Caislin Firth, Jennifer Parker, Regina A Shih, Steven Davenport, Anthony Rodriguez, Michael S Dunbar, et al. 2020. "Locating Medical and Recreational Cannabis Outlets for Research Purposes: Online Methods and Observational Study." Journal of Medical Internet Research 22 (2). https://doi.org/10.2196/16853.
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