

Find a better community
around University of
Toronto to live

A decorative graphic consisting of several thin, white, parallel lines that originate from the bottom right and extend diagonally upwards towards the top right corner of the image.

Finding a safe, convenient community around the University of Toronto is valuable for who plans to work or study at U of T

A series of white lines of varying lengths and thicknesses, arranged in a diagonal pattern from the bottom right towards the center of the slide.

► Data Source

Toronto Police Service has public safety data portal (<https://data.torontopolice.on.ca/>). The data portal provides following data:

MCI (Major Crime Indicators) 2014 to 2019: include Assault, Break and Enter, Robbery data.


1. Theft Over 2014 to 2019: a subset of the MCI.
2. Robbery 2014 to 2019: a subset of the MCI.
3. Break and Enter 2014 and 2019: a subset of the MCI.

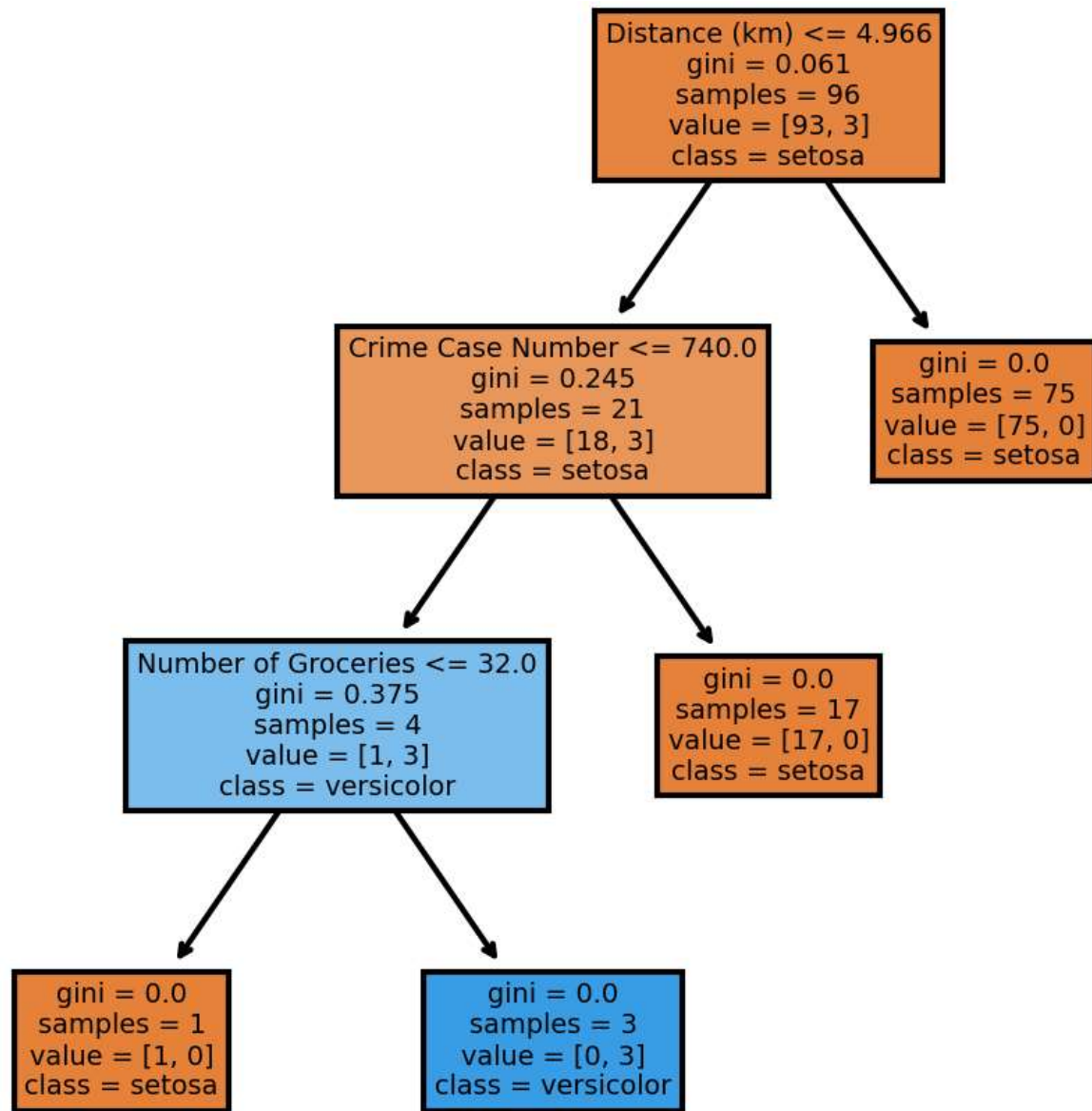
The data has reported date, latitude and longitude, neighborhood information.

► Data Analysis

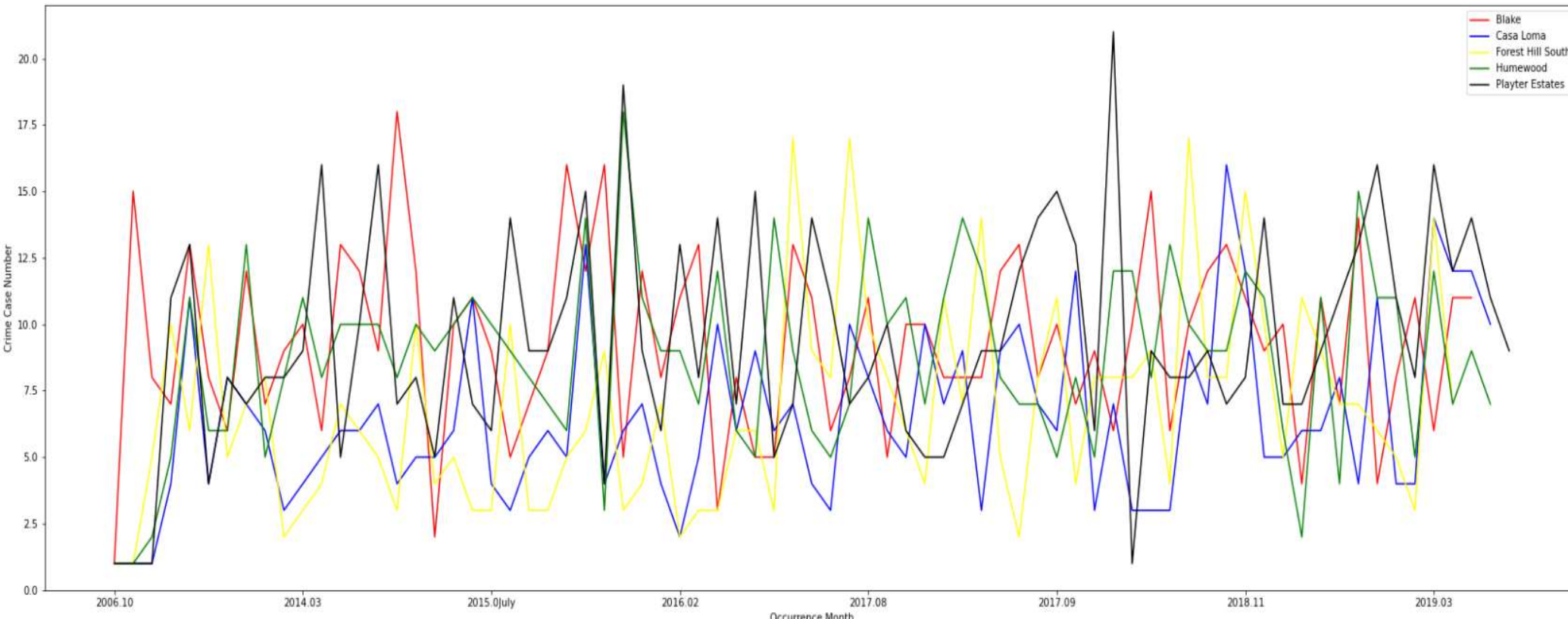
1. Total Crime Case Number per community
2. Use average of latitude/longitude of all criminal incidents as the latitude/longitude of center of the community
3. Find the latitude/longitude of University of Toronto.
4. Calculate the distance from each community to University of Toronto.
5. Find how many grocery stores and restaurants within 2 km from the center of each community

► Machine Learning model

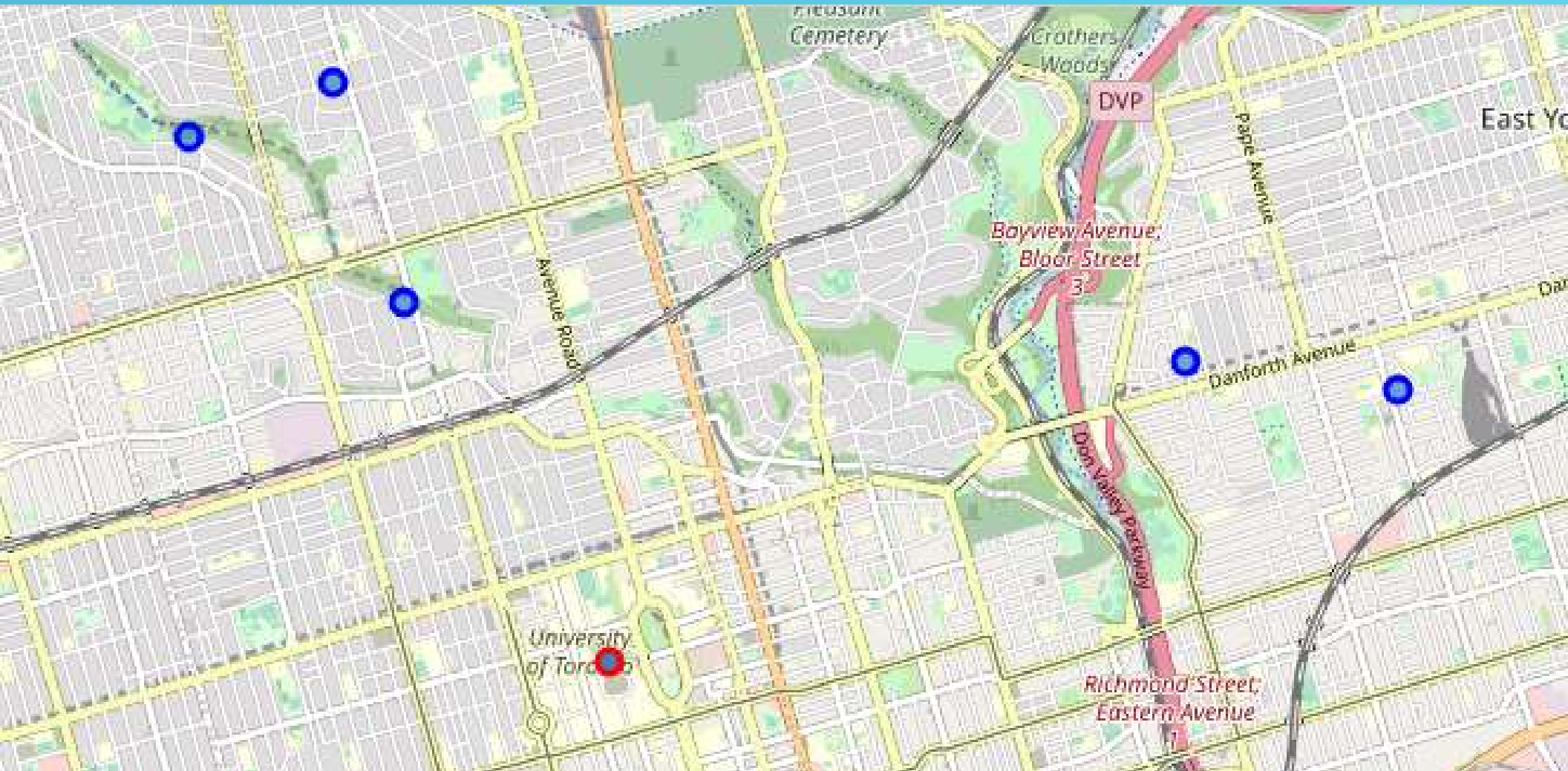
1. Give 4 features: distance to UofT, crime rate, number of grocery stores, number of restaurants
 2. Give criteria to identify if a community can be chose or not
 3. Use Decision Tree Machine Learning to detail the choosing processing.
- 
- Several white lines of varying lengths and angles are drawn on the right side of the slide, extending from the middle towards the bottom right corner.



► Crime rate trending for short-listed communities



► Plot communities around UofT



► Conclusion and future work

1. House price or rental price should be considered
2. The number of crime cases / population might make more sensesUse
3. Commuting distance is more complicated than the distance from the center of community to target place