

Neighborhoods in Vancouver

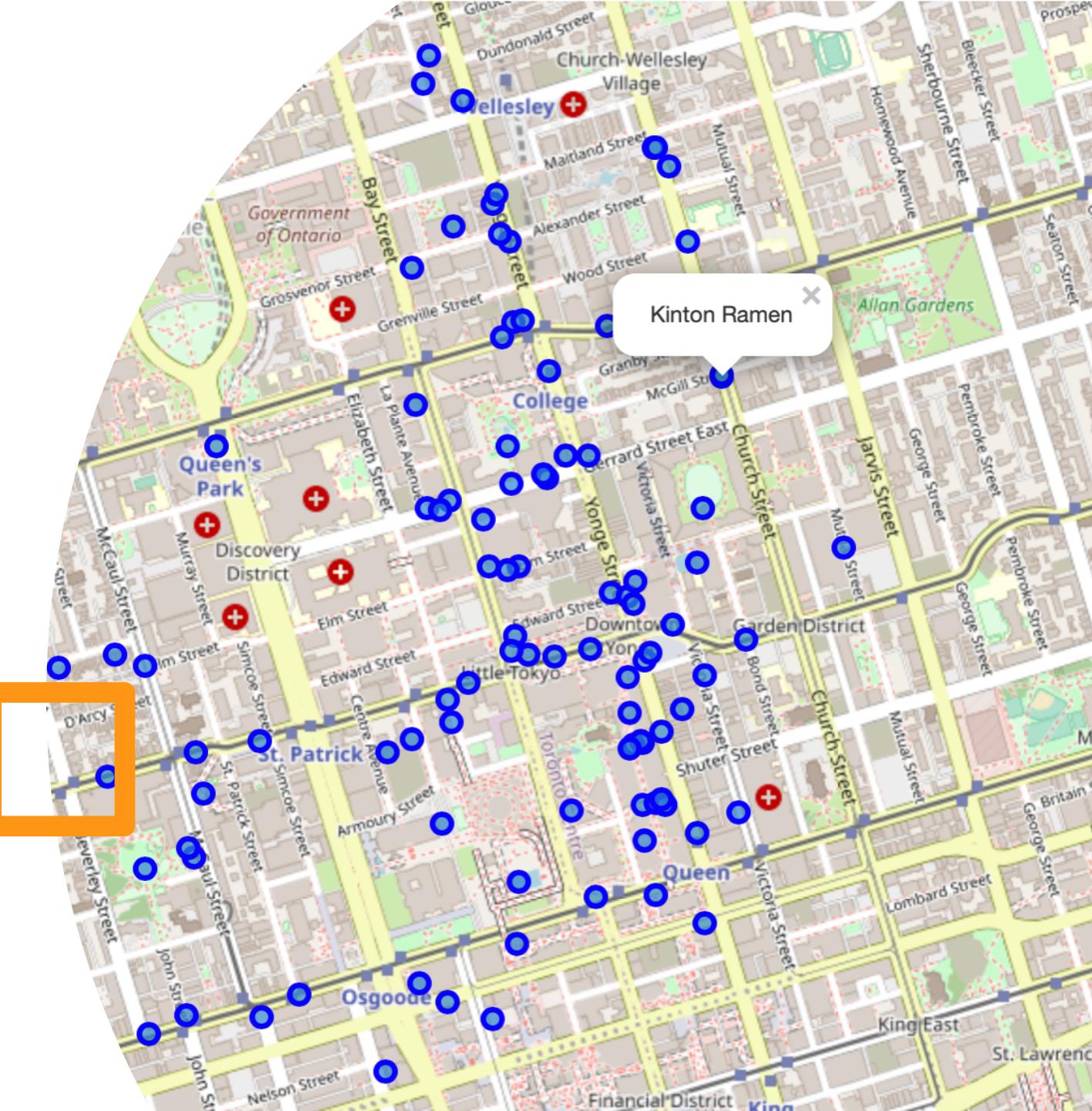
Roxanne Li

Background:

- Suppose a client Ava got two job offers from two different companies. Company A's office is located in Toronto and is approximately 20 min drive away from Ava's apartment. Ava lives in the central bay street neighborhood in Toronto. Company B's office is in Vancouver, which means Ava has to move to Vancouver in order to work in Company B.
- However, Company B is offering a higher salary to Ava compared to Company A. One thing that makes Ava hesitate to move to Vancouver is the convenience of living in her current neighborhood, which has various types of venues around and makes her life much comfortable and enjoyable.

Problem:

Look for neighborhoods in Vancouver with similar surroundings as the Central Bay Street in Toronto



Data Sources

- Neighborhoods in Vancouver:
<https://opendata.vancouver.ca/explore/dataset/local-area-boundary/table/?location=12,49.2474,-123.12402>
- Geocodes of Toronto: https://cocl.us/Geospatial_data
- Neighborhoods in Toronto:
[https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada : M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)

Data Wrangling



Rows with data under column 'Borough' not assigned are removed.



Neighborhoods in Toronto and each of their geocodes are combined.



Only columns of neighborhood names and coordinates are retained from the csv file of Vancouver neighborhoods.

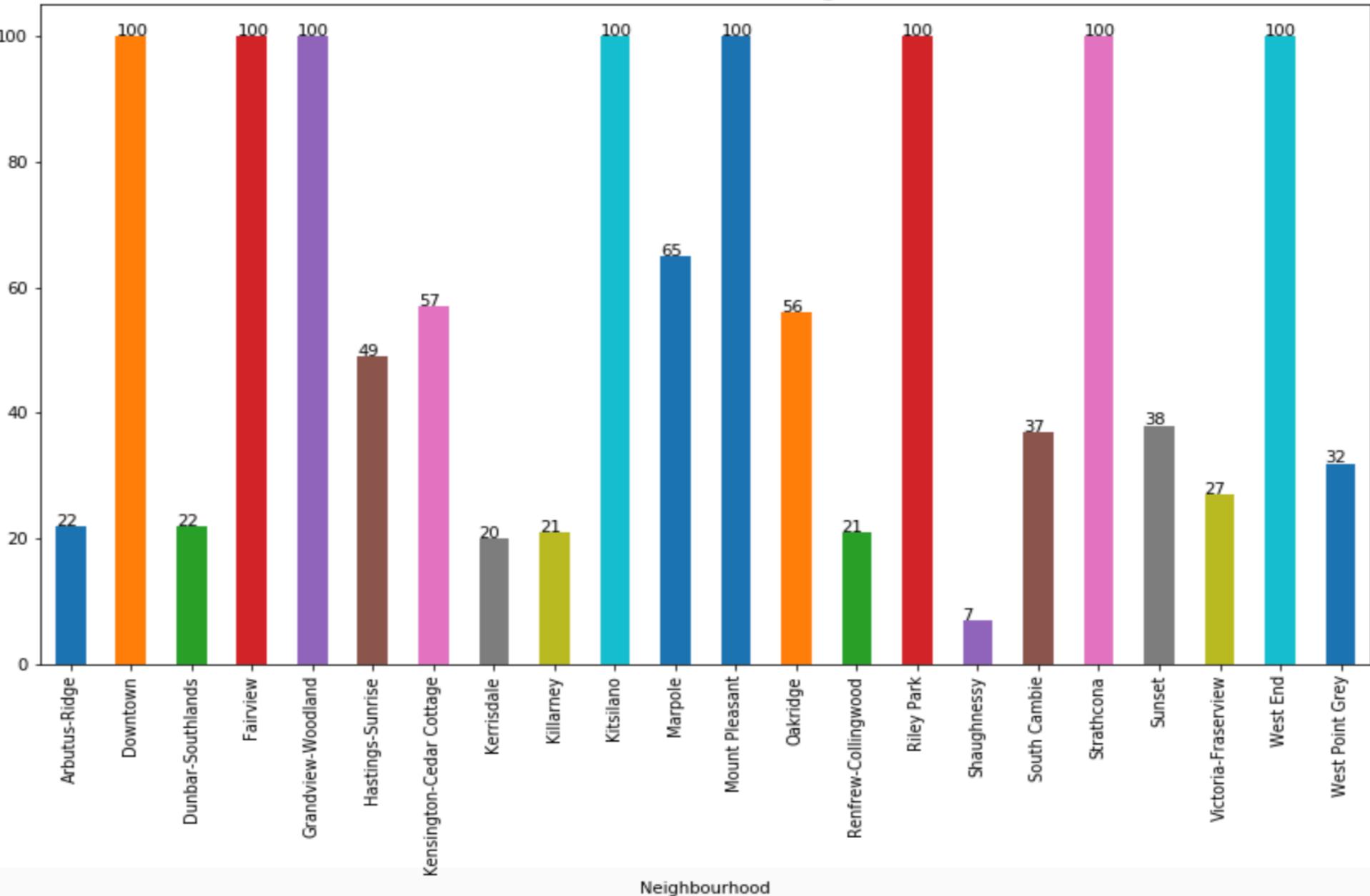


Venue category frequency table is created with neighborhoods of Vancouver and Central Bay Street of Toronto.

Data Visualization

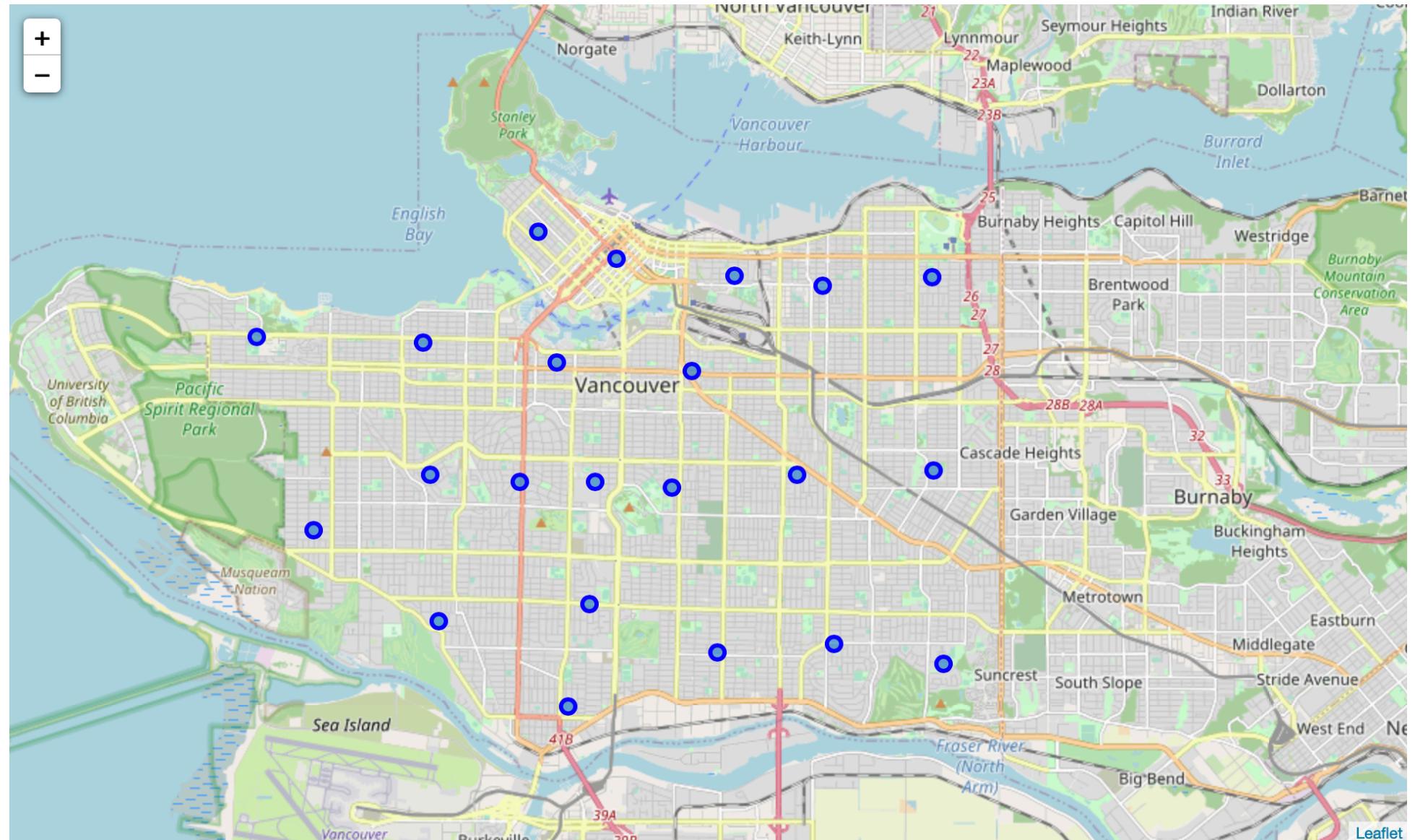
- Venue Categories in Vancouver neighborhoods

Number of Venue Categories

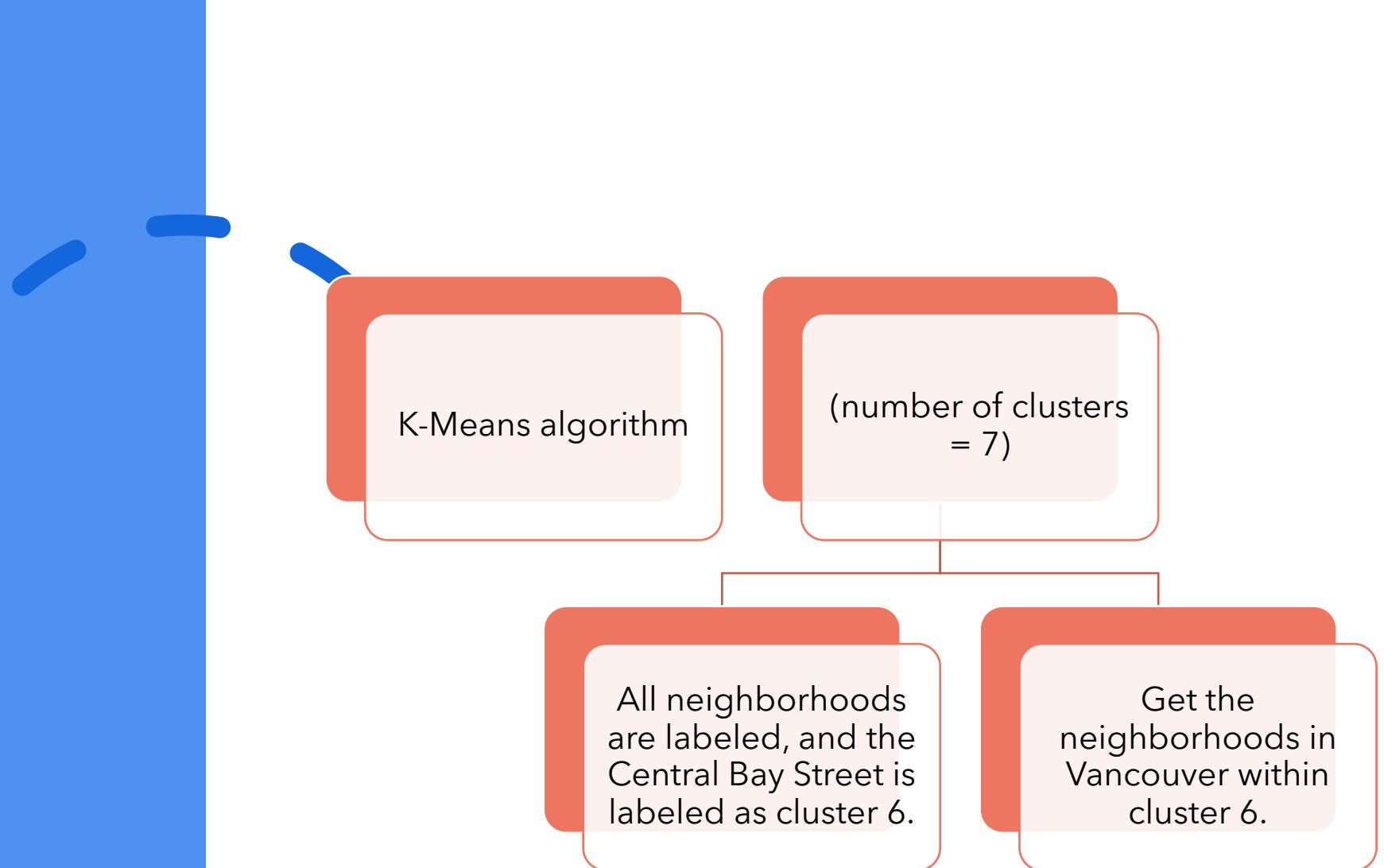


Data Visualization

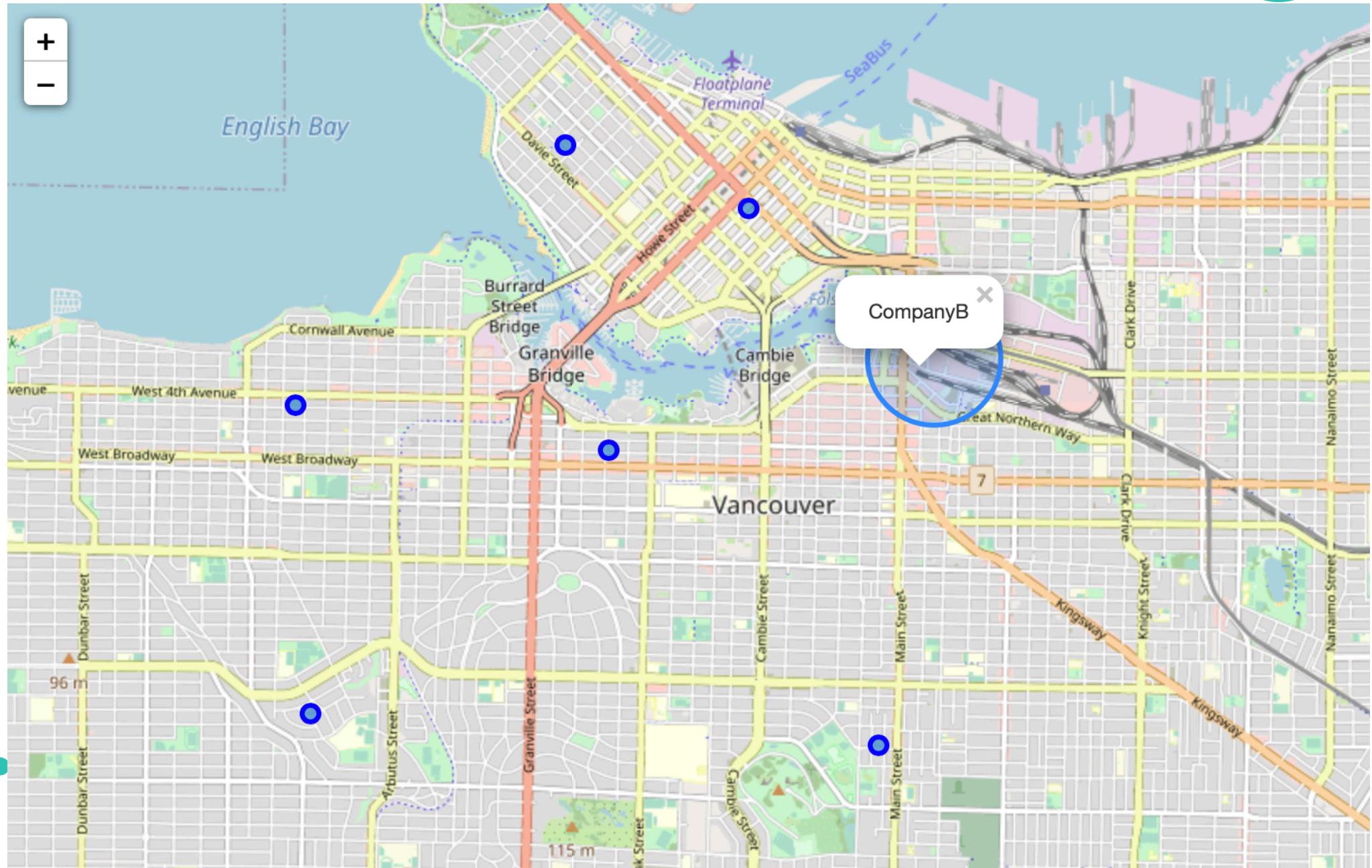
- Neighborhoods in Vancouver



Modeling



Results





Conclusion

- The Downtown neighborhood and the Fairview neighborhood are closer to CompanyB. Therefore, moving to one of these two neighborhoods gives Ava a shorter commute to work.