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IBM Data Science Capstone Project

SUBWAY SURFING: WHICH SUBWAY STATION SHOULD I LIVE NEAR?

Which subway stop should I
centre my house hunting
on?

Context

- ◎ Currently live in the suburb's of Toronto
- ◎ Looking to move near a subway station to shorten commute
- ◎ Ideal station should be within walking distance of 5 types of amenities that are important to me

Data



Walking Distance

- Self calculated -> 1500 m



City of Toronto Open Data

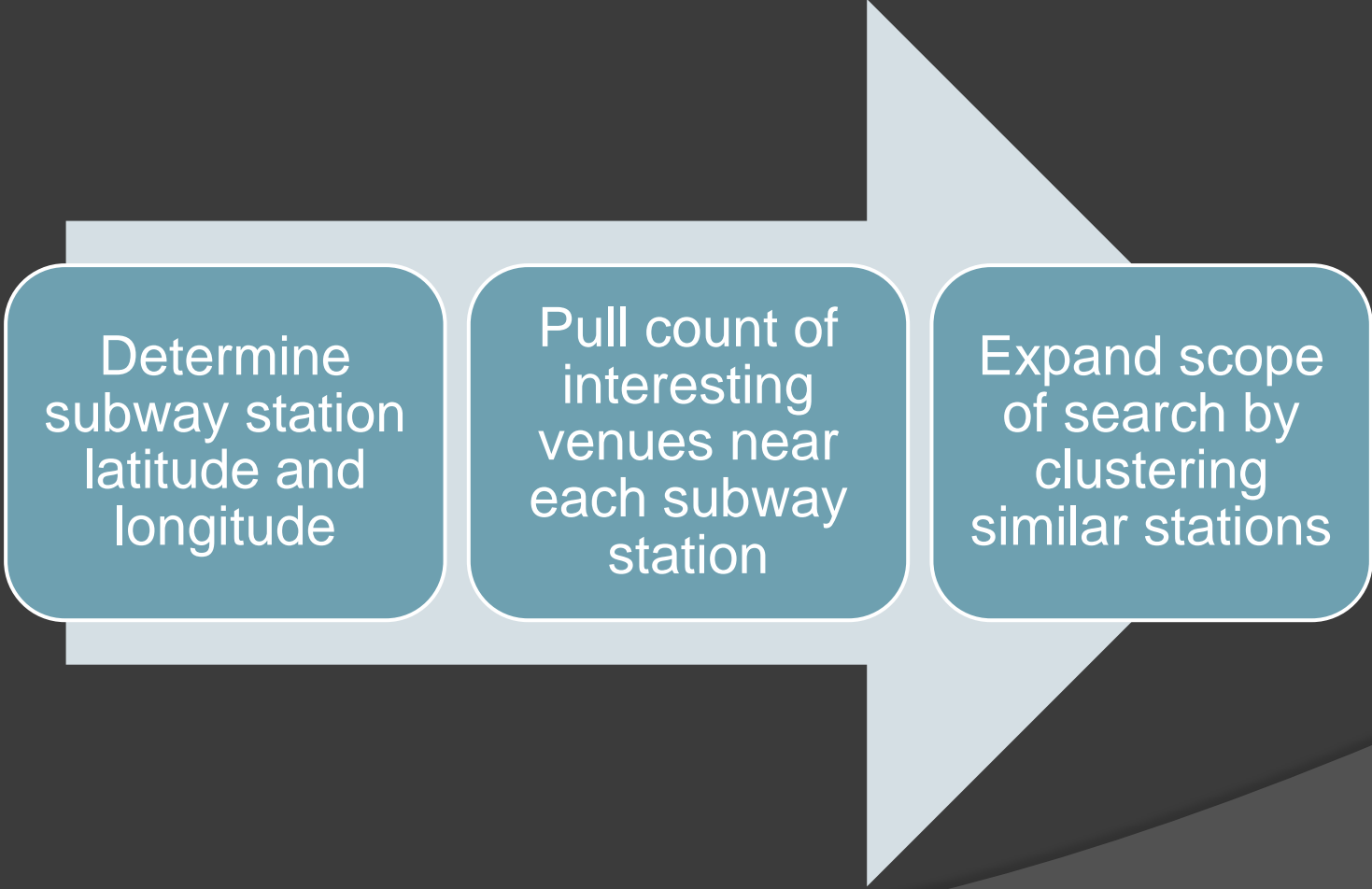
- Subway station location data



Foursquare API

- Venues surrounding each station

Methodology

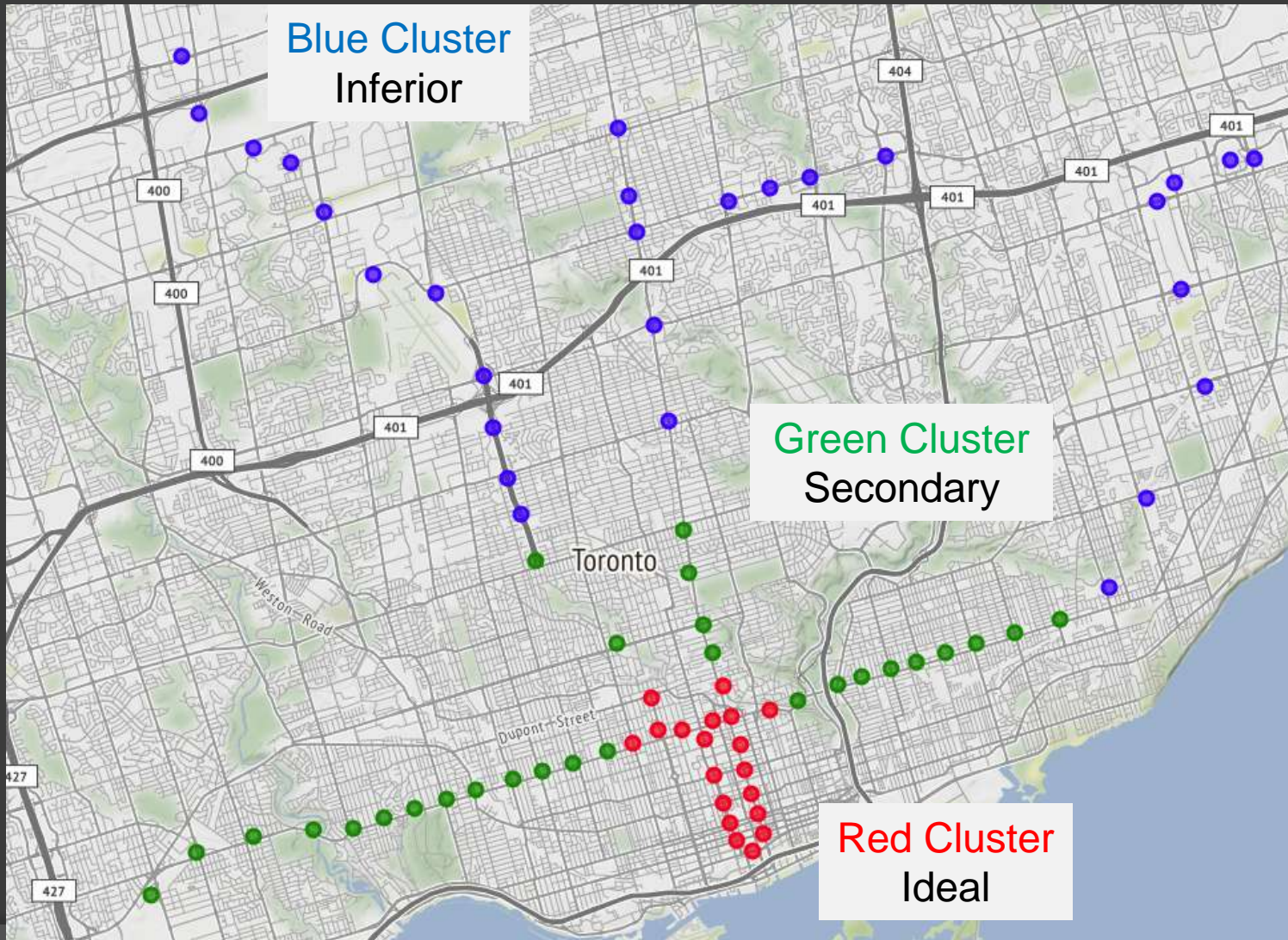


Determine
subway station
latitude and
longitude

Pull count of
interesting
venues near
each subway
station

Expand scope
of search by
clustering
similar stations

Results / Discussion



Conclusion

◎ 75 Subway Stations In Toronto

◎ 19 Stations in ideal cluster

- BATHURST, BAY, BLOOR-YONGE, COLLEGE, **DUNDAS**, DUPONT, KING, MUSEUM, OSGOODE, QUEEN, QUEEN'S PARK, ROSEDALE, SHERBOURNE, SPADINA, ST ANDREW, ST GEORGE, ST PATRICK, UNION, or WELLESLEY

◎ First choice: Dundas Station

- By number of amenities in walking distance