

The Battle of Neighborhoods: Edmonton's Best Neighborhood

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Edmonton

Edmonton is the capital city of the Canadian province of Alberta. Edmonton is on the North Saskatchewan River and is the center of the Edmonton Metropolitan Region, surrounded by Alberta's central region. The city anchors the north end of what Statistics Canada defines as the "Calgary–Edmonton Corridor."



Research Question

- Edmonton's best neighborhood to live
- Kind of venue in each neighborhood
- Similar neighborhood in Edmonton

Data collection

- Edmonton data that contains list Boroughs, Neighbourhoods along with their latitude and longitude.
 - Data source: https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_T
 - Description: This data set includes the required information. And we will use this data set to explore various neighborhoods of Edmonton, AB, Canada
- Venue information in each neighborhood of Edmonton.
 - Data source: Foursquare API
 - Description: By using this API, we will get all the venues in each neighborhood. We can filter these venues to get only Indian restaurants.
- GeoSpace data
 - Data source: <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmi-j8zm>
 - Description: Using this geospace data, we will get the Edmonton Borough boundaries to visualize the choropleth map.

Work Flow

Neighborhood
location
information



Foursquare API:
venue of each
location



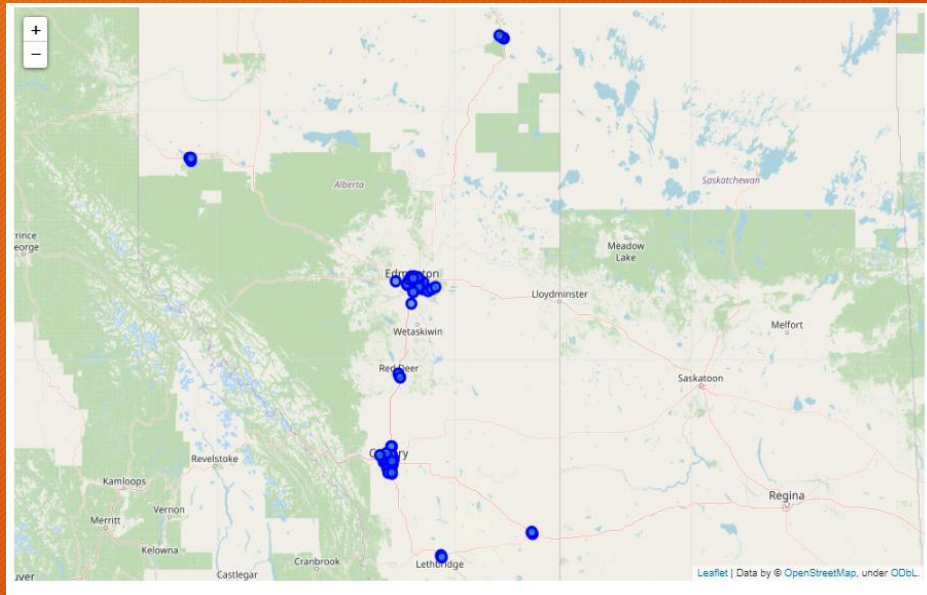
Finding best
Neighborhood



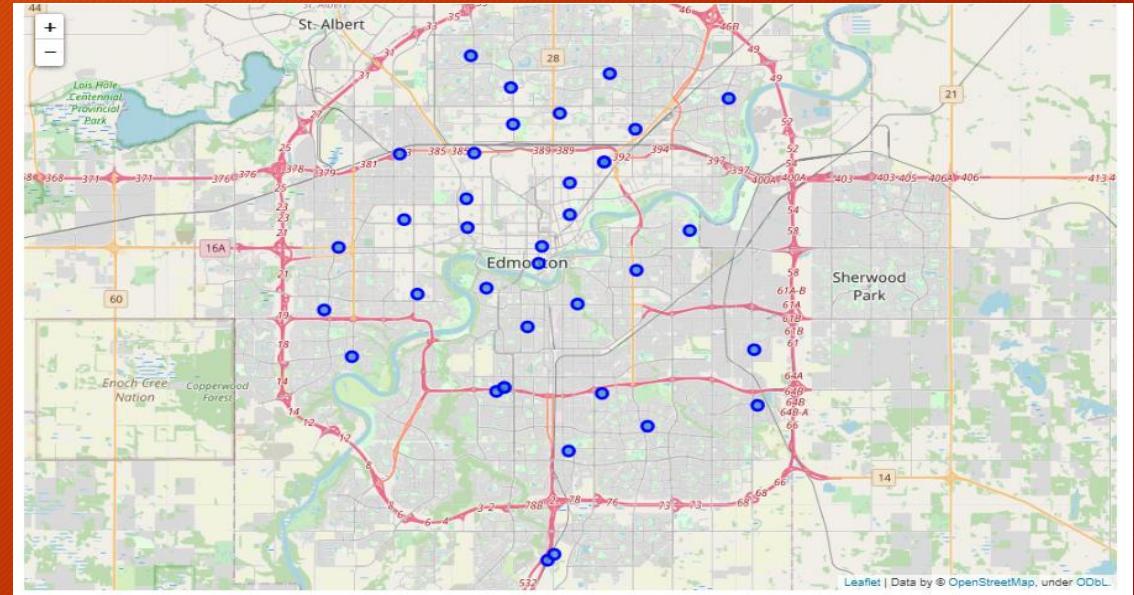
Similar
neighborhood:
K-means
algorithm

Results- Alberta and Edmonton maps

Alberta Map



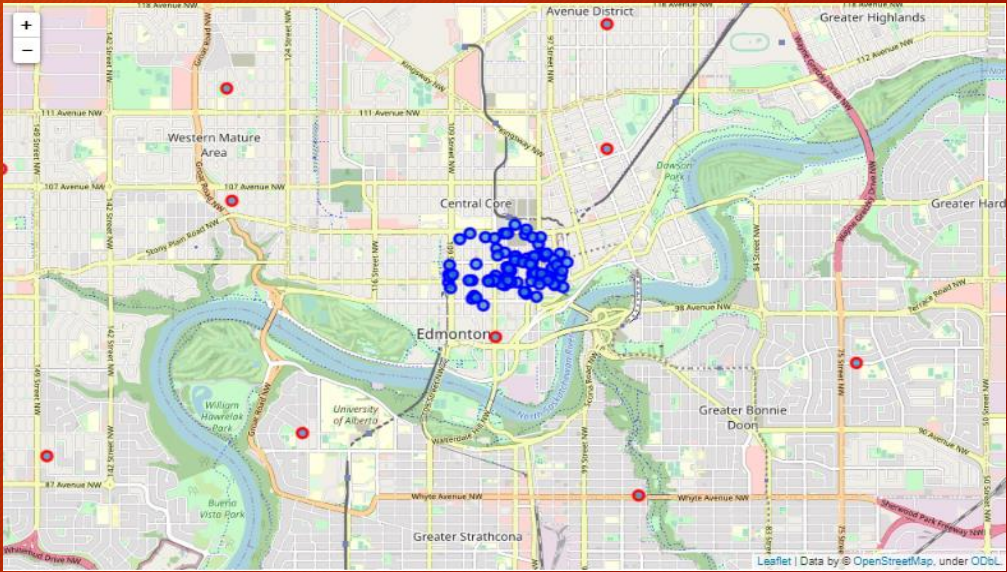
Edmonton Map



Results- Best Neighborhood

Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Central Beverly	13	13	13	13	13	13
Central Bonnie Doon	23	23	23	23	23	23
Central Jasper Place, Buena Vista	10	10	10	10	10	10
Central Londonderry	4	4	4	4	4	4
Central Mistatim	4	4	4	4	4	4
East Castledowns	6	6	6	6	6	6
East Mill Woods	2	2	2	2	2	2
East North Central, West Beverly	13	13	13	13	13	13
East Southeast Industrial, South Clover Bar	5	5	5	5	5	5
Ellerslie	3	3	3	3	3	3
Glenora, SW Downtown Fringe	16	16	16	16	16	16
Heritage Valley	3	3	3	3	3	3
Horse Hill, East Lake District	13	13	13	13	13	13
Kaskitayo, Aspen Gardens	5	5	5	5	5	5
North Capilano	5	5	5	5	5	5
North Central, Queen Mary Park, Blatchford	12	12	12	12	12	12
North Downtown	100	100	100	100	100	100
North Jasper Place	4	4	4	4	4	4
North Westmount, West Calder, East Mistatim	6	6	6	6	6	6
NorthDowntown Fringe, East Downtown Fringe	21	21	21	21	21	21
SE Capilano, West Southeast Industrial, East Bonnie Doon	5	5	5	5	5	5
South Bonnie Doon, East University	6	6	6	6	6	6
South Downtown, South Downtown Fringe (Alberta Provincial Government)	41	41	41	41	41	41
South Industrial	11	11	11	11	11	11
South Westmount, Groat Estate, East Northwest Industrial	13	13	13	13	13	13
Southgate, North Riverbend	58	58	58	58	58	58
Southwest Edmonton	2	2	2	2	2	2
The Meadows	23	23	23	23	23	23
The Palisades, West Castle Downs	12	12	12	12	12	12
West Clareview, East Londonderry	10	10	10	10	10	10
West Jasper Place, West Edmonton Mall	4	4	4	4	4	4
West Lake District	30	30	30	30	30	30
West Londonderry, East Calder	9	9	9	9	9	9
West Mill Woods	2	2	2	2	2	2
West Northwest Industrial, Winterburn	43	43	43	43	43	43
West University, Strathcona Place	19	19	19	19	19	19

Best Neighborhood: North Downtown



Results- Best Neighborhood

Venue category	Number in each category
Coffee Shop	9
Sandwich Place	5
Pub	4
Café	
Hotel	
Restaurant	3
French Restaurant	
Pizza Place	2
New American Restaurant	
Rock Club	
Brewery	
Gym	
Nightclub	
Smoothie Shop	
Asian Restaurant	
Vietnamese Restaurant	
Bar	
Mexican Restaurant	
Steakhouse	

Most Common venues near neighborhood

