

Presentation: Capstone Project

BATTLE OF NEIGHBORHOODS

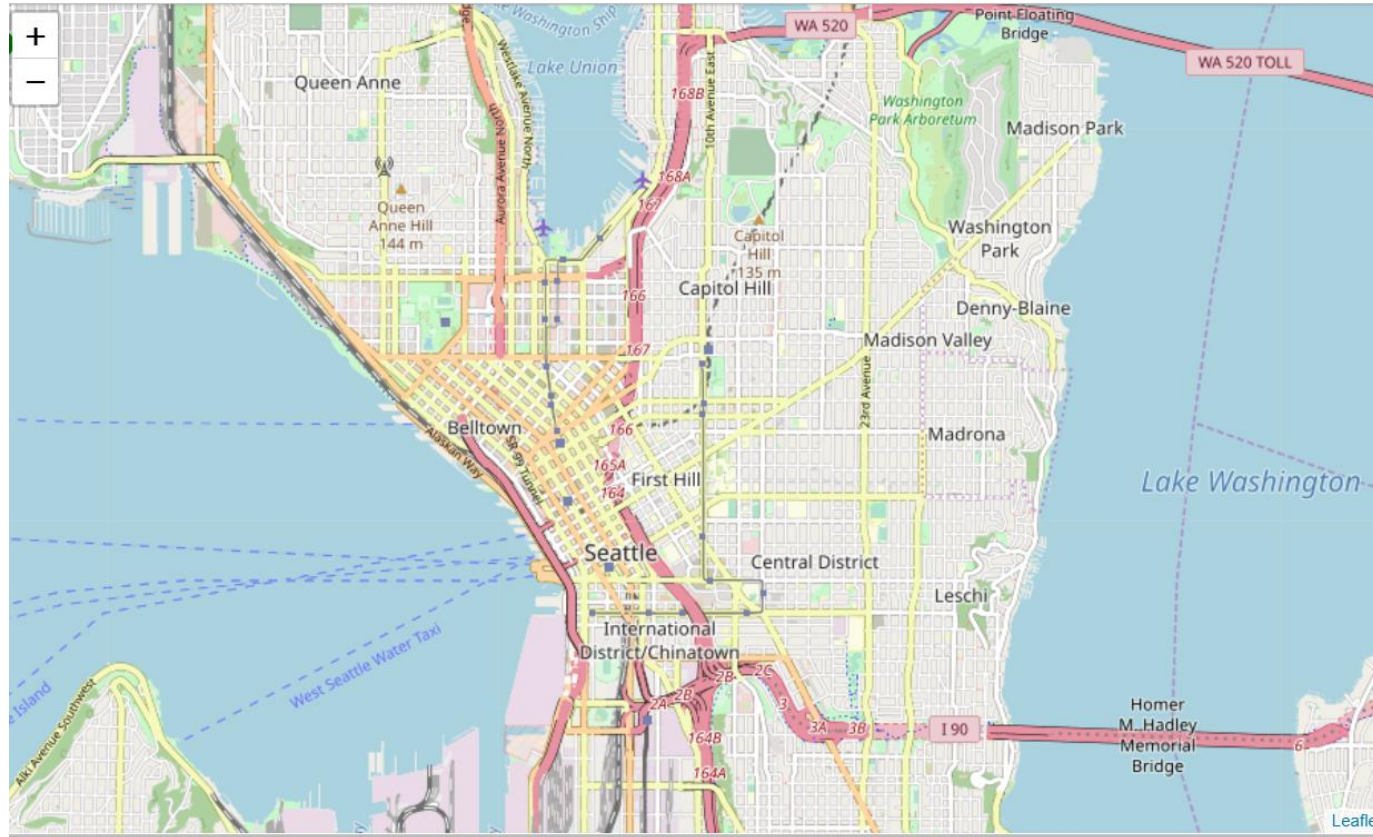
Goal of the Project

- ▶ Developing of a machine learning algorithm that will simplify the search for real estate for purchase
- ▶ Giving the buyers the tool to analyze the property market
- ▶ Filtering the property marked based on price

Tools used in the Project

- ▶ Data bases from the opened sources
- ▶ Jupiter Notebook
- ▶ Google Maps API calls
- ▶ Foursquare API calls

Results: Map of the given city, e.x. Seattle

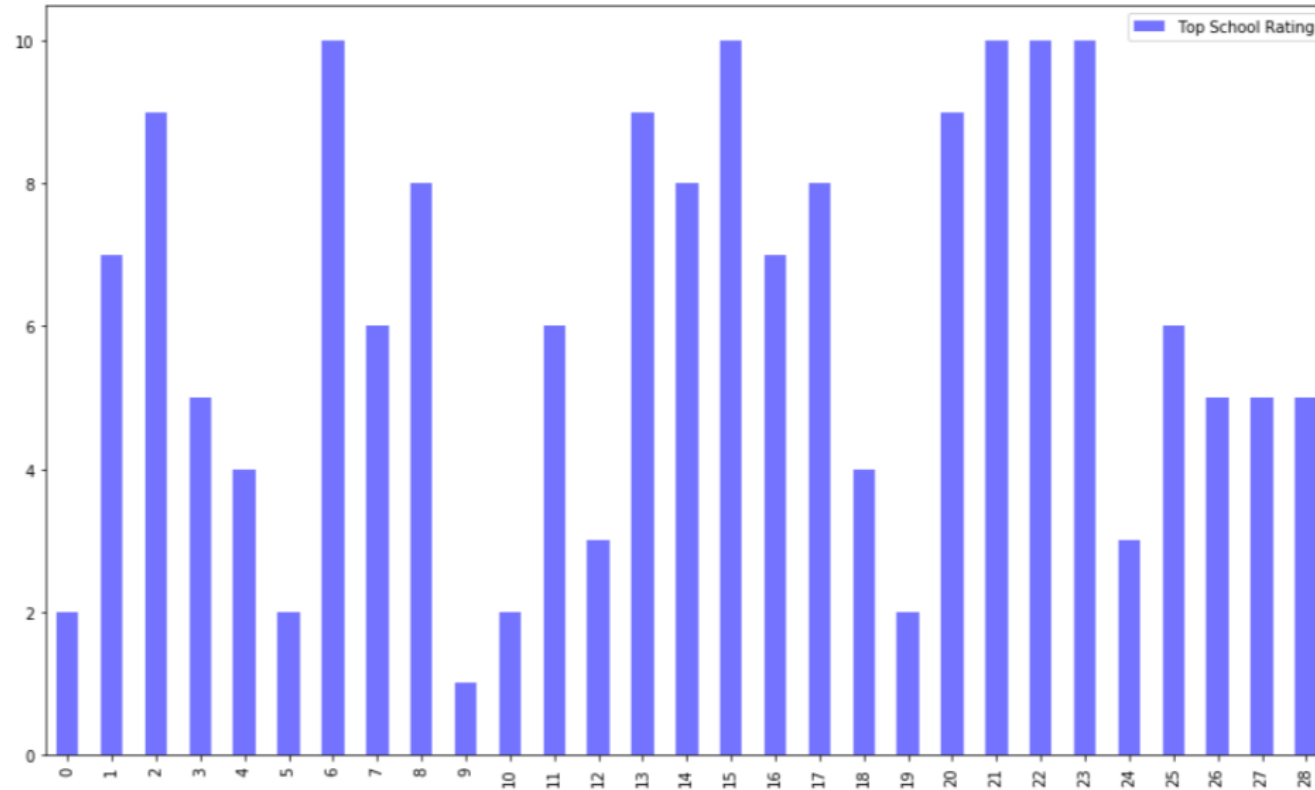


Results: List of the most common venues in the city

	name	categories	lat	lng
0	Il Corvo	Italian Restaurant	47.602522	-122.331952
1	Columbia Tower Club	Social Club	47.604507	-122.330484
2	Biscuit B*tch	Breakfast Spot	47.603237	-122.332010
3	Juicy Cafe	Café	47.604329	-122.330958
4	Tat's Delicatessen	Sandwich Place	47.601901	-122.332423
5	Smith Tower	Building	47.601858	-122.332152
6	Top Pot Doughnuts	Donut Shop	47.604023	-122.332499
7	Metropolitan Grill	Steakhouse	47.604617	-122.334280
8	Columbia Center Observation Deck (Sky View Obs...	Scenic Lookout	47.604595	-122.330816
9	Smith Tower Observation Deck	Scenic Lookout	47.601877	-122.331866
10	Monorail Espresso	Coffee Shop	47.604651	-122.331094
11	Elm Coffee Roasters	Coffee Shop	47.600152	-122.330944
12	Flatstick Pub	Beer Bar	47.600220	-122.331310
13	Delicatus	Deli / Bodega	47.601579	-122.334253
14	Red Bowls	Noodle House	47.604654	-122.333211
15	Cherry Street Public House	Coffee Shop	47.600450	-122.332908
16	Bill Speidel's Underground Tour	Tour Provider	47.602124	-122.334000
17	Damn the Weather	Cocktail Bar	47.601004	-122.334119
18	Cherry Street Coffee House	Coffee Shop	47.602767	-122.334151

Results: List of Communities with the school ratings and property prices

	Neighborhood	Top School Rating
23	Alki Beach	10
15	University District	10
21	Madrona	10
6	Renton	10
22	West Seattle	10
20	Bainbridge Island	9
2	Kirkland	9
13	International District	9
14	Pioneer Square	8
8	Downtown	8
17	Ballard	8
1	Bellevue	7
16	Laurelhurst	7
7	Seattle	6
11	Freemont	6
25	Belltown	6
26	Northgate	5
27	Mount Baker	5



	Neighborhood_Name	Price_of_housing
8	Downtown	2356900.0
17	Ballard	453000.0
2	Kirkland	256000.0
4	Mercer Island	253695.0
5	Redmond	253640.0
28	Magnolia	240000.0
3	Lynnwood	235940.0
1	Bellevue	235478.0
6	Renton	200000.0
0	Federal Way	152956.0
25	Belltown	135000.0
27	Mount Baker	132000.0
24	Columbia City	125000.0
16	Laurelhurst	125000.0
15	University District	120653.0
11	Freemont	120358.0
9	Capital Hill	120354.0
21	Madrona	120333.0
18	South	120000.0

Results: Most common venues in communities chosen by the client

Neighborhood_Name	Lynnwood	West Seattle	Pioneer Square	Madrona	Redmond
Post_Code	98037	98116	98104	98110	98052
Latitude	47.6422	47.6422	47.6422	47.6422	47.6422
Longitude	-122.4	-122.4	-122.4	-122.4	-122.4
Cluster Labels	0	0	0	0	0
1st Most Common Venue	Playground	Playground	Playground	Playground	Playground
2nd Most Common Venue	Coffee Shop	Coffee Shop	Coffee Shop	Coffee Shop	Coffee Shop
3rd Most Common Venue	Pizza Place	Pizza Place	Pizza Place	Pizza Place	Pizza Place
4th Most Common Venue	Pharmacy	Pharmacy	Pharmacy	Pharmacy	Pharmacy
5th Most Common Venue	Park	Park	Park	Park	Park
6th Most Common Venue	Video Store	Video Store	Video Store	Video Store	Video Store
7th Most Common Venue	Italian Restaurant	Italian Restaurant	Italian Restaurant	Italian Restaurant	Italian Restaurant

The End

► Thank you!