

# Finding the best community area in Chicago to live in

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## 1 Data Description

### 1.1 Data Acquisition

I scraped list of neighbour community areas and neighbourhoods from the page : [https://en.wikipedia.org/wiki/Community\\_areas\\_in\\_Chicago](https://en.wikipedia.org/wiki/Community_areas_in_Chicago)

Sample ScreenShot :

Number	Community area	Neighborhoods
08	Near North Side	<ul style="list-style-type: none"><li>• Cabrini–Green</li><li>• The Gold Coast</li><li>• Goose Island</li><li>• Magnificent Mile</li><li>• Old Town</li><li>• River North</li><li>• River West</li><li>• Streeterville</li></ul>
32	Loop	<ul style="list-style-type: none"><li>• Loop</li><li>• New Eastside</li><li>• South Loop</li><li>• West Loop Gate</li></ul>
33	Near South Side	<ul style="list-style-type: none"><li>• Dearborn Park</li><li>• Printer's Row</li><li>• South Loop</li><li>• Prairie Avenue Historic District</li></ul>

I have obtained the required census data regarding housing, unemploymnet etc. from the page : <https://ibm.box.com/shared/static/05c3415cbfbtfnr2fx4atenb2sd361ze.csv>

Sample ScreenShot :

COMMUNITY_AREA_NUMBER	PERCENT OF HOUSING CROWDED	PERCENT HOUSEHOLDS BELOW POVERTY	PERCENT AGED 16+ UNEMPLOYED
1 Rogers Park	7.7	23.6	8.7
2 West Ridge	7.8	17.2	8.8
3 Uptown	3.8	24	8.8
4 Lincoln Square	3.4	10.9	8.2
5 North Center	0.3	7.5	5.2
6 Lake View	1.1	11.4	4.7
7 Lincoln Park	0.8	12.3	5.1
8 Near North Side	1.9	12.9	7
9 Edison Park	1.1	3.3	6.8
10 Norwood Park	2	5.4	9
11 Jefferson Park	2.7	8.6	12.4
12 Forest Glen	1.1	7.5	6.8
13 North Park	3.9	13.2	9.8
14 Albany Park	11.3	19.2	10
15 Portage Park	4.1	11.6	12.6
16 Irving Park	6.3	13.1	10
17 Dunning	5.2	10.6	10
18 Montclair	8.1	15.3	13.8
19 Belmont Cragin	10.8	18.7	14.6
20 Hermosa	6.9	20.5	13.1
21 Avondale	6	15.3	9.2
22 Logan Square	3.2	16.8	8.2

I have extracted geo location data for every community area from the page : <https://ibm.box.com/shared/static/f9gjjvj1gjmxxzycdhplzt01qtz0s7ew7.csv>

Sample ScreenShot :

1	Latitude	Longitude	COMMUNITY_AREA_NAME	COMMUNITY_AREA_NUMBER
2	41.92449696	-87.64452163	LINCOLN PARK	7
3	41.76032435	-87.55673627	SOUTH SHORE	43
4	41.74711093	-87.73170248	ASHBURN	70
5	41.8097569	-87.6721446	NEW CITY	61
6	41.82814609	-87.63279369	ARMOUR SQUARE	34
7	41.9711433	-87.70962725	ALBANY PARK	14
8	41.94661693	-87.69105603	NORTH CENTER	5
9	41.90684338	-87.68304259	WEST TOWN	24
10	41.93576106	-87.68052441	NORTH CENTER	5
11	41.97160605	-87.72464139	ALBANY PARK	14
12	41.94952795	-87.68605496	NORTH CENTER	5
13	41.81329195	-87.64338051	NEW CITY	61
14	41.94524725	-87.67085683	LAKE VIEW	6
15	41.90672216	-87.69300325	WEST TOWN	24
16	41.68663682	-87.63359476	ROSELAND	49
17	41.70485072	-87.62360199	ROSELAND	49
18	41.90612797	-87.72993324	HUMBOLDT PARK	23
19	41.70514024	-87.65811642	BEVERLY	72
20	41.886183	-87.71539705	EAST GARFIELD PARK	27
21	41.886183	-87.71539705	EAST GARFIELD PARK	27

The data is wrangled from the sources mentioned above and loaded into data frames for further processing.