Coursera Capstone Project

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Introduction

- I was born in a small town Langepas in Western Siberia and haven't been there for a long time. Consider the following situation: I want to return home and open a coffee shop. The question is: "Is it possible to compete with other cafes and coffee shops in the town?".

- To answer this question I will use the methods learnt in previous Coursera IBM courses.

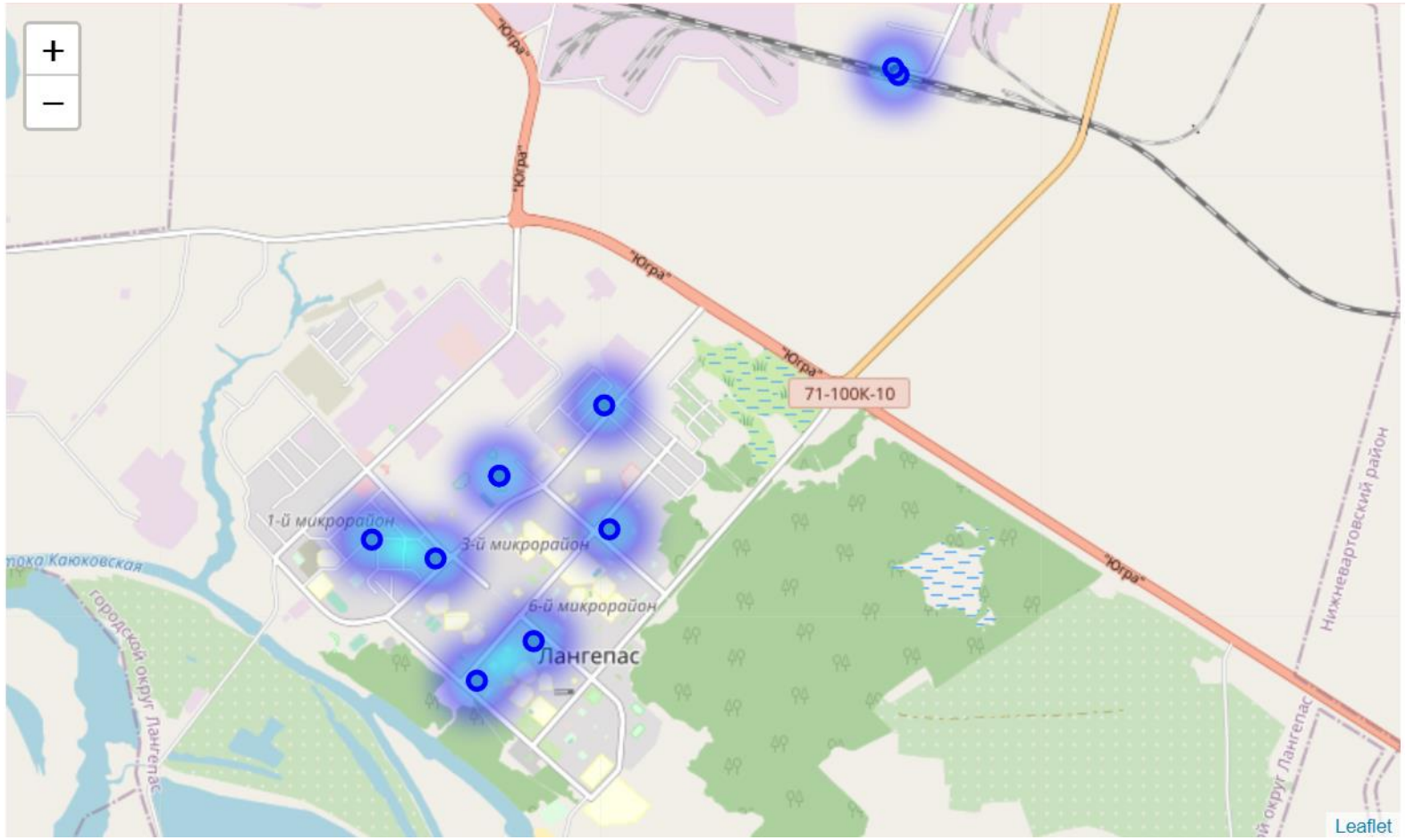
Data

	uid	name	shortname	
0	4f2ceec7e4b040eafeb39112	Cherry	Eastern European	61.2
1	500784b2c84c614d5a6f1f73	Олимпия	Hotel	61.2
2	50fbad05e4b0396365f45535	Ж/Д станция Лангепасовский	Train Station	61.2
3	505ab903e4b0279819cd48db	ЖД Вокзал	Platform	61.2
4	51251615e4b088917cc635cc	Анапа	Café	61.2
5	4fdd5dbfe4b094b0d1901f4d	Кофейня В Универмаге Лагнепаса	Café	61.2
6	53aeb314498eaefb4f1c435a	Кафе "Олимп"	Café	61.2
7	5131e74ae4b008f2628d269b	Ресторан "Юбилей"	Café	61.2
8	5b49e073e96d0c0039627ab0	Тендер, Кофейня	Coffee Shop	61.2
9	53aed31a498e345e4a238d34	1001 ночь	Café	61.2

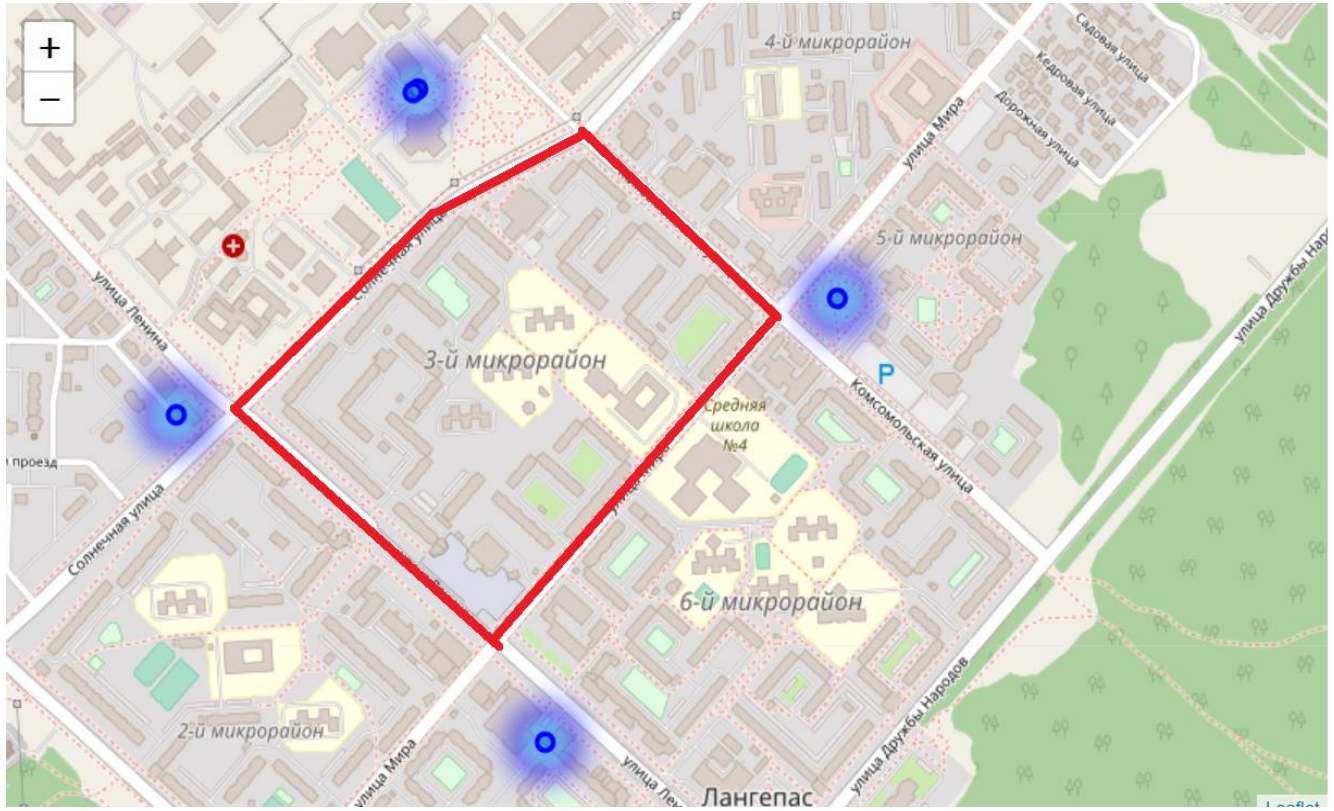
- To achieve the goal of the project we require data about venues in the town. It can be received through requests to the Foursquare API.
- The next step is to extract the information and filter it out. We create datarames and drop unnecessary columns with NaNs. As we don't have lots of data, both dataframes are concateneted.

Methodology

- Folium library is used for the purposes of the visualization of the data. It is enough to use method get_map with appropriate variables to get an image of the city with venue labels on it.



Results



- We can easily see that the density of cafes in Langepas is low and uniform in the sense of distribution. Also, part of cafes are situated separately from others as they are close to the city bus station.

- So, judging by the map, we can conclude that it could be a great decision to open cafe in "3-й микрорайон".