${\bf Capstone Project_The Battle of Neighborhoods_Tomas Bvoc}$

COURSERA – IBM Data Science Professional Certificate

Capstone Project

The Battle of Neighborhoods

Location recommendation for a new coffee place in Bratislava

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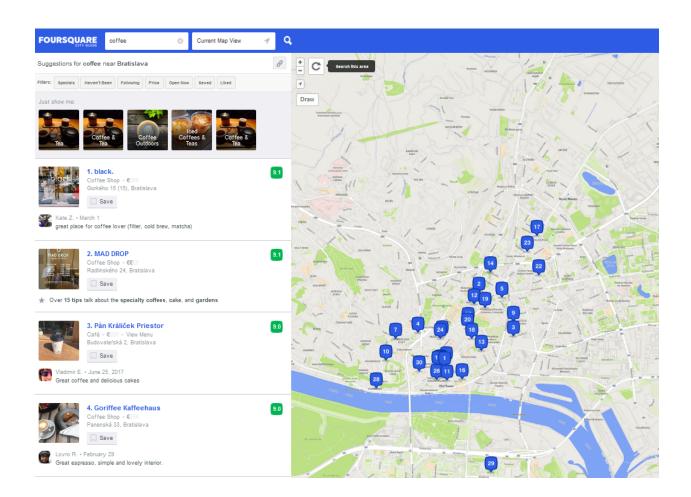
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1. Introduction

I can see on my own eyes, that Bratislava, as my hometown, has been developing rapidly in recent years and becoming a cosmopolitan city. There is a special area close to Danube river, so-called Modern downtown, and I live close to it. Well, let's consider I wish to open a café & coffee shop in this developing borough. Second crucial attribute, as a prerequisite, is to find a place not far away from my own apartment (Mileticova 27). I consider as very important to be able to handle to reach it by walk or bicycle easily - it will help me to spare time and to reduce my cost slightly.

Now, the third attribute needed to find out the correct location where to start a ne coffee business. Not too close of existing cafés, not too far from the heart of the freshly growing area.



2. Data

To explore the neighborhoods and coffee places in Bratislava city, I will need a list of Coffee places in Bratislava. I'm about to use Foursquare API https://foursquare.com/. With this data source I'm able to identify existing coffee places around the specified point (my living place).

Data will be inserted into single dataframe with main characteristics: Name of the coffee place; Geographical data – coordinates (Latitude and Longitude) and Address. Some additional data are collected, but let us consider they are not important for the analysis.

Pre-processing of data will be needed – cleaning, setting radius.

	name	categories	address	lat	Ing	labeledLatLngs	distance	postal Code	cc	city	state	country	formattedAddress	crossStreet i
0	MEM'S Coffee	Café	Košická 42	48.150238	17.134992	[{'lab el': 'display', 'lat': 48.15023810495661	334	821 08	SK	Bratislava	Bratislavský kraj	Slovensko	[Košická 42, 821 08 Bratislava, Slovensko]	NaN
1	Urban Coffee	Café	Plynárenská 1	48.146523	17.143003	[['lab el': 'display', 'lat': 48.146523, 'lng':	570	821 08	SK	Bratislava	Bratislavský kraj	Slovensko	[Plyná renská 1 (Prievozská), 821 08 Brati slava	Prievo zská
2	Steam & Coffee	Breakfast Spot	Vajn orská 98/H	48.166435	17.137888	[['lab el': 'display', 'lat': 48.16643474186929	1718	831 04	SK	Bratislava	Bratislavský kraj	Slovensko	[Vajnorská 98/H, 831 04 Bratislava, Slovensko]	NaN
3	Coffee Break	Café	Záhradnícka 61	48.154097	17.129072	[['lab el': 'display', 'lat': 48.15409734913596	835	821 08	SK	Bratislava	Bratislavský kraj	Slovensko	[Záhradnícka 61, 821 08 Bratislava, Slovensko]	NaN
4	Coffee	Café	NaN	48.141931	17.128729	[['lab el': 'display', 'lat': 48.141931, 'lng':	1282	811 09	SK	Bratislava	Bratislavský kraj	Slovensko	[811 09 Bratislava, Slovensko]	NaN
5	Timi Am o Gelat o&Coffe e	Cafeteria	Rumancek ova 85 5/1	48.150253	17.156305	[['lab el': 'display', 'lat': 48.150253, 'lng':	1262	821 01	SK	Bratislava	Bratislavský kraj	Slovensko	[Rumancekova 855/1, 821 01 Bratislava, Slovensko]	NaN
6	Coffee Brothers	Coffee Shop	Metod ová	48.156748	17.130393	[{"lab el": "display", "lat": 48.1567484257976,	920	NaN	SK	Bratislava	Bratislavský kraj	Slovensko	[Metodová (Jela čičova), Bratislava, Slovensko]	Jelači čova