VIRTUAL TRIP AND PLANNING ADVISOR

Applied Data Science Capstone Project
IBM Data Sceince Professional Certificate Specialization
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How to Plan a Trip or Look at nice Pictures



Gather data about Ukrainian Carpathian Mountains and nearest venues



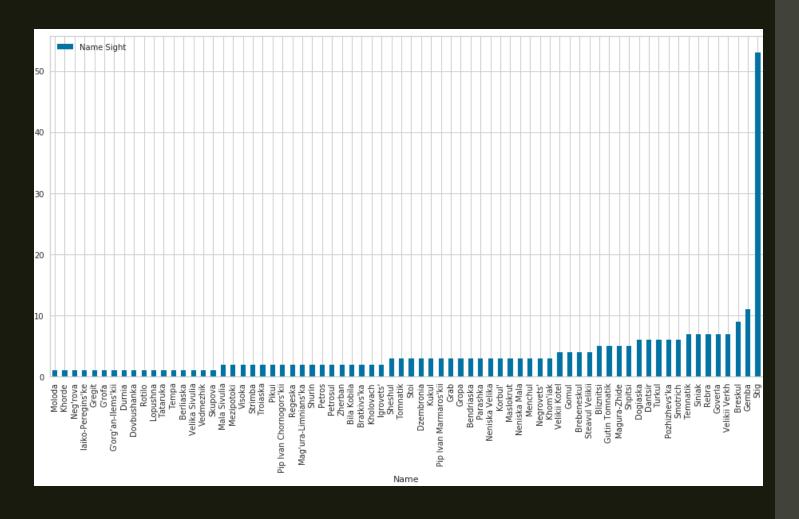
Apply clustering with k-Mean



Study result

	Name	Height	Location	id	Latitude	Longitude
0	Goverla	2061.0	Chornogora	1	48.15111	24.50000
1	Brebeneskul	2035.8	Chornogora	2	48.09833	24.58056
2	Pip Ivan Chornogors'kii	2028.5	Chornogora	3	48.04778	24.62778
3	Petros	2022.5	Chornogora	4	48.17194	24.42111
4	Gutin Tomnatik	2016.4	Chornogora	5	48.10000	24.55667

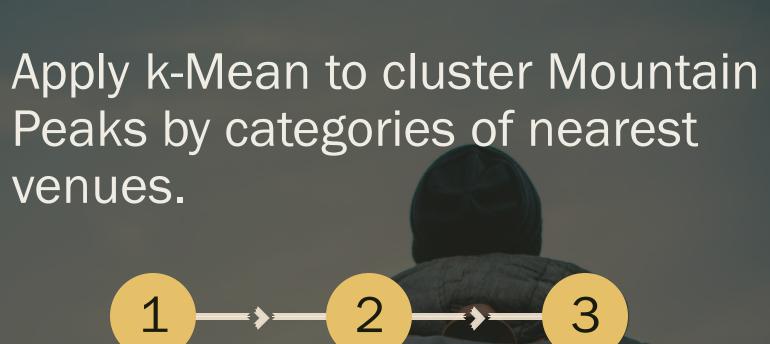
	id	Name	Category	Latitude	Longitude
0	1	Говерла (2061 м) / Hoverla	Mountain	48.16039	24.50037
1	2	Брескул (1911 м) / Breskul	Mountain	48.15037	24.51103
2	3	Гірське Крісло	Other Great Outdoors	48.16272	24.50573
3	4	Говерлянка	Mountain	48.16615	24.50546
4	5	Пожижевська (1822 м)	Mountain	48.14430	24.52357



Gather data from Wikipedia and Fousquare



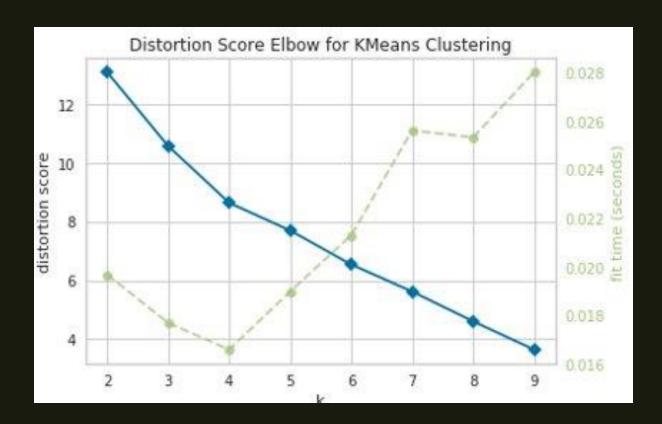




Use elbow method to determine optimal number of clusters k = 6.

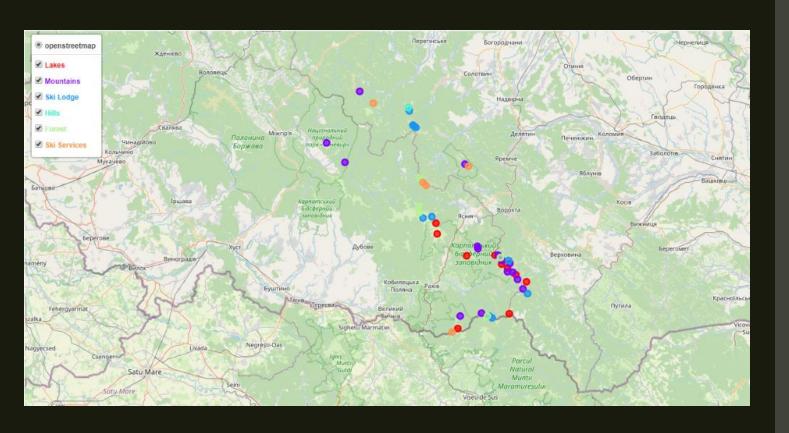
Perform k-Means and pick up proper cluster names

Display result on a map



Use elbow method to determine optimal number of clusters k = 6.

Perform k-Means and pick up proper cluster names



Display result on a map

THANK YOU

Stay healthy and positive