Coursera IBM Capstone Project

Detecting the best waterfall spots in Tamilnadu to set up a restaurant

Introduction

Tamil Nadu is one of the 2 states in India and has 28 beautiful waterfalls across the state. The waterfalls being very beautiful have resulted in sufficient increase of the revenue of the state. Lots of tourists visit the waterfalls during the weekends and vacations in order to relax themselves. Waterfalls are the best spots for vacations. Tamilnadu being a state with 28 waterfalls welcomes tourists from all over the world to spend their leisure time here. The travel agencies try their best to find the best amenities and attract the tourists with offers. New startups and hotel business caterers also find opportunities to start their business or expand their business at these tourist spots.



Problem statement

The tourists find it difficult to find a proper outlet for having meals. Hence, the project aims in finding the best waterfalls spot to set up a restaurant to meet the needs of tourists.

Data Acquisition and Cleaning

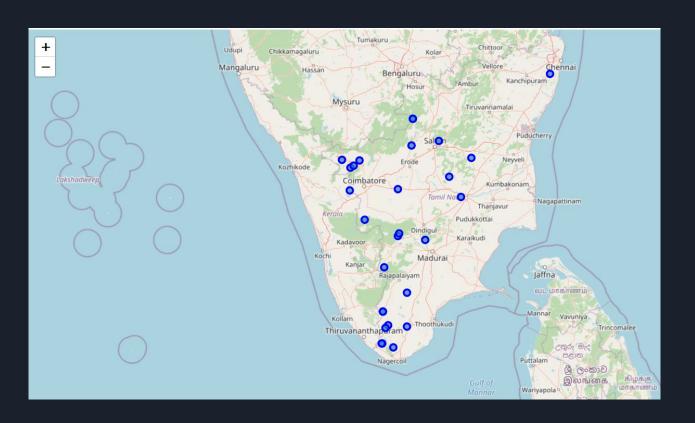
- The data was scraped from:
 https://en.wikipedia.org/wiki/Categor
 y:Waterfalls of Tamil Nadu
- The data was analyed using Folium and Geocoder packages of python
- Foursquare APi was also used for finding the nearby venues.



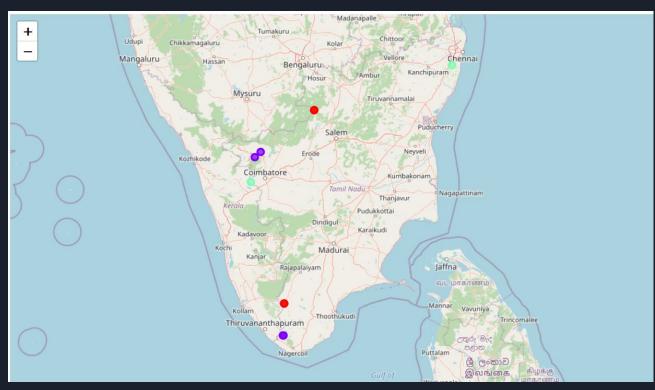




Waterfalls in TamilNadu



Clusters formed after data analysis and clustering



Conclusion

From the above data analysis, we can predict that it would be a good decision if the restaurants are constructed in Cluster 3. Cluster 1 seems to be equipped with good hotels and restaurants nearby. On further analysis on Cluster 3, Cluster 2 and Cluster 1 we find that these Waterfalls have shortage of good hotels and restaurants nearby

- Courtallam
- Catherine Falls
- Thirparappu Falls
- Thirparappu
- Vaideki
- Siruvani Falls

Thank You

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