

# RECOMMENDING PLACES!!

**PRESENTATION BY:-**

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# Why Tourism is important to any country?

- Tourism activity creates demand.
- Tourism industry value chain meets & spreads demand across industries & boosts more economic activities.
- Tourism induces more consumption.

## Business Problem



People who are interested in opening a restaurant, lodging, transport services, or any other similar businesses which fall within the tourism industry.

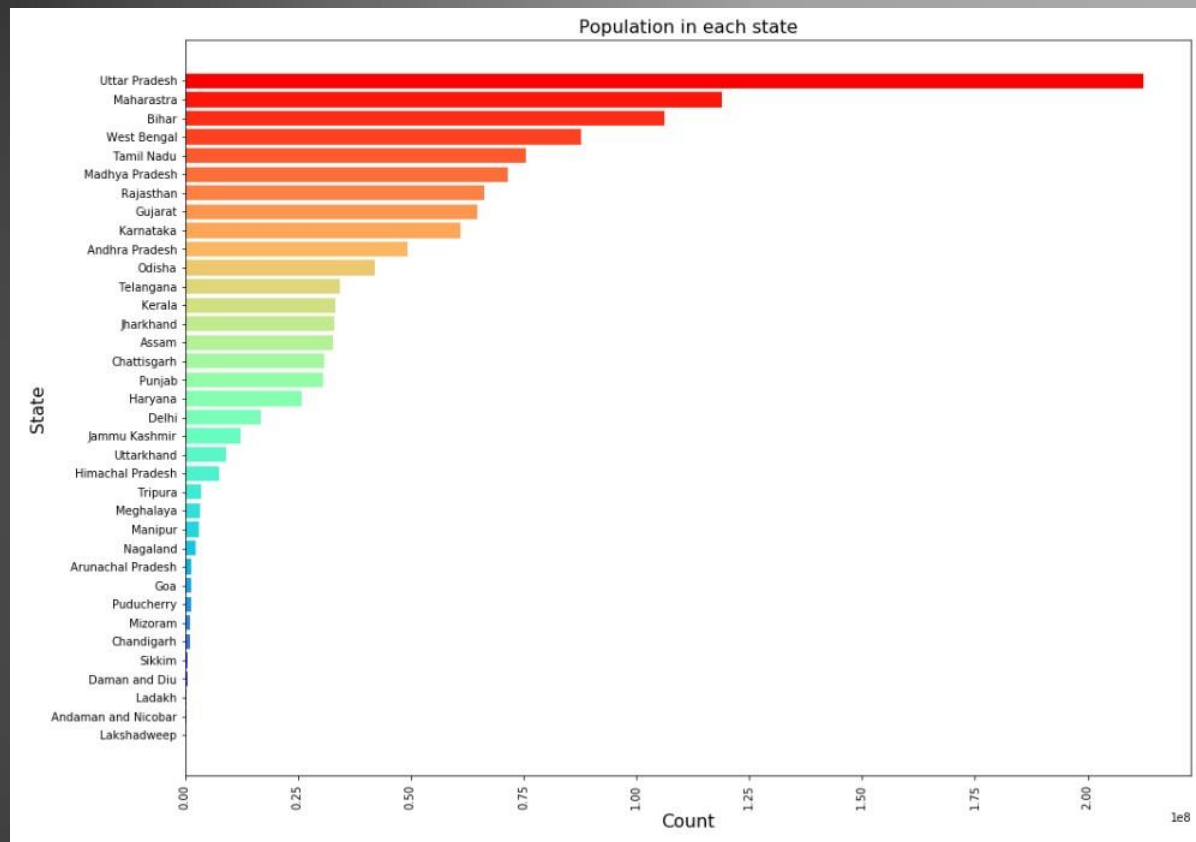
This also recommends travelers' tourist venues to be visited in a given state of a country.

- The Wikipedia page

[https://en.wikipedia.org/wiki/List\\_of\\_district](https://en.wikipedia.org/wiki/List_of_district)

s\_in\_India

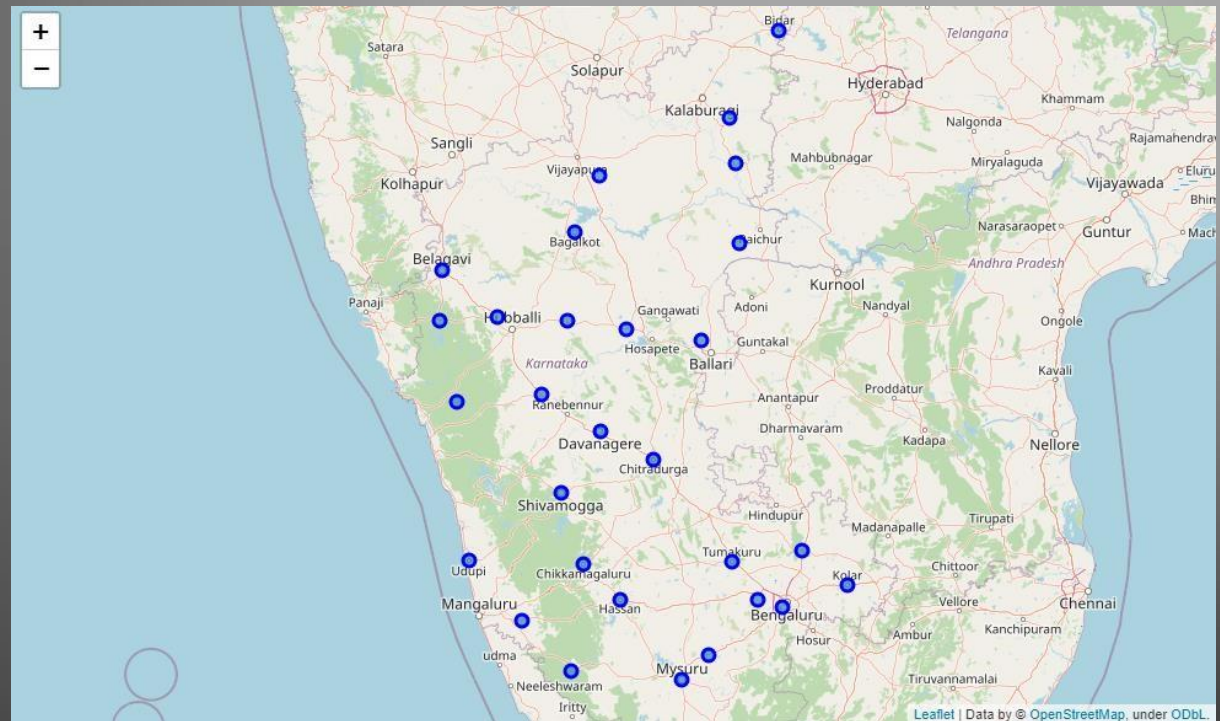


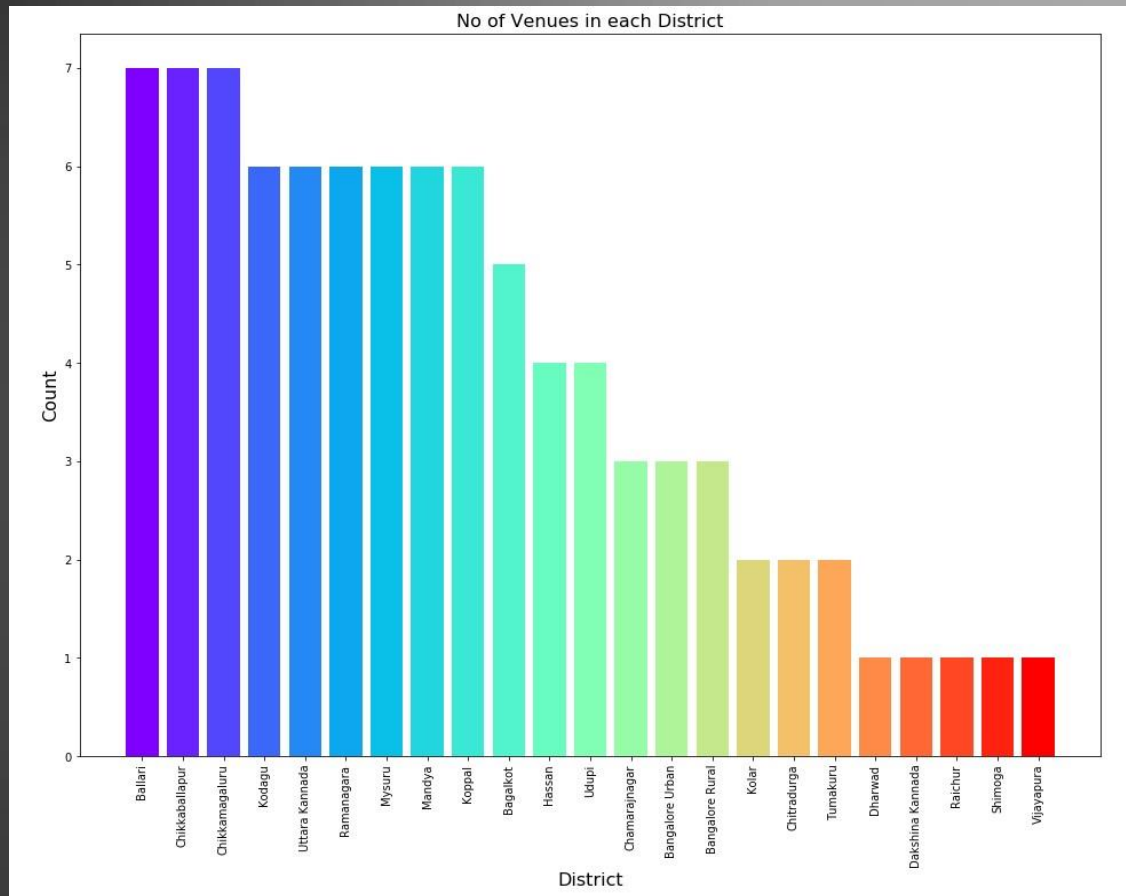


There are specific factors within the characteristics of the population which makes the tourism industry lead to an improvement of the socio-economic conditions of the population [1].

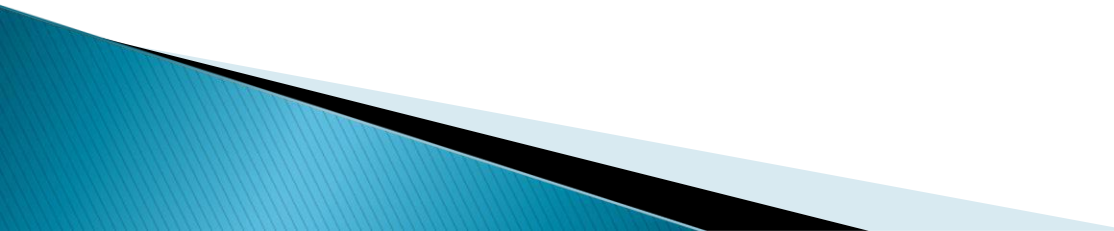


Obtain nearby tourist venues within a radius of 50km.

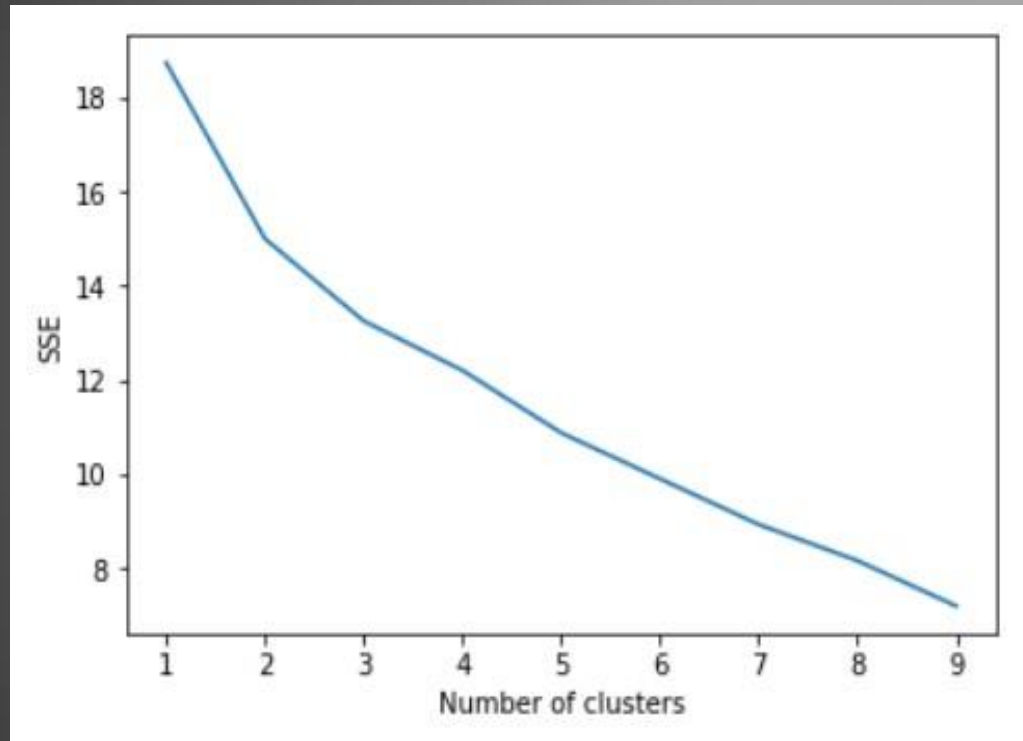




Count of number of venues in each District >>

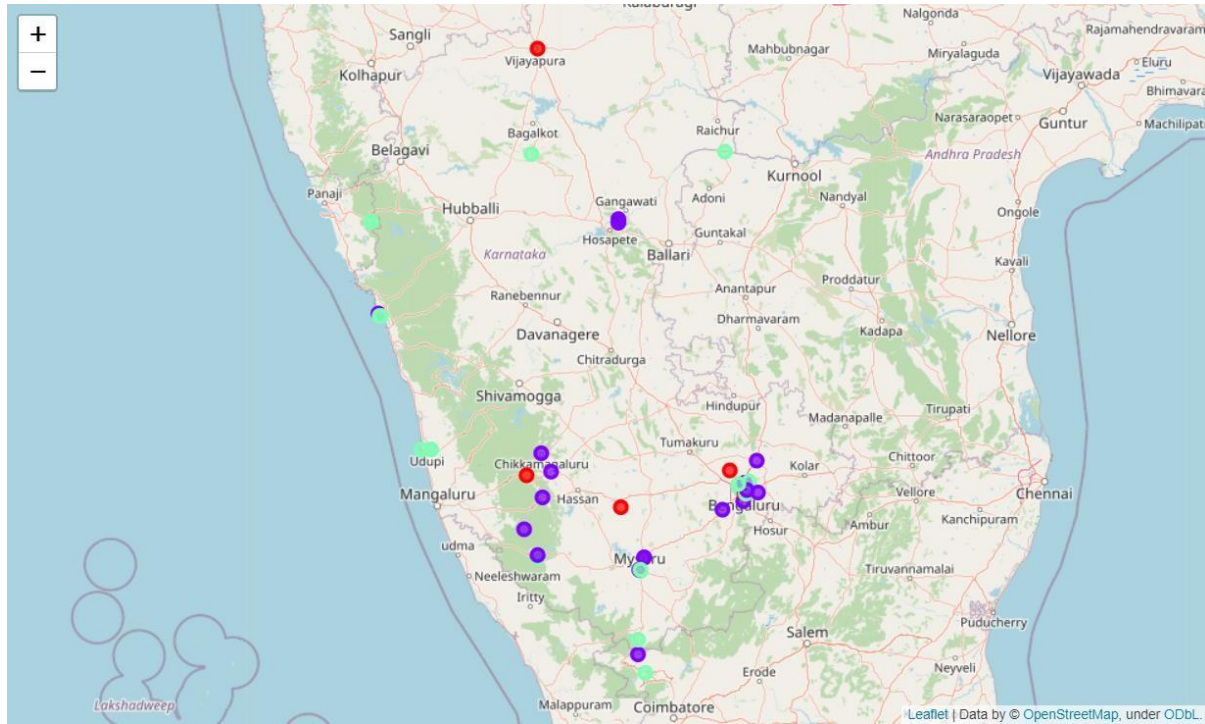
- ❖ Perform one-hot encoding to obtain famous tourist spots in each district.
  - ❖ Use the venues obtained to find the best business that could be established in the locality.
  - ❖ Use K-means algorithm to cluster the business categories obtained.
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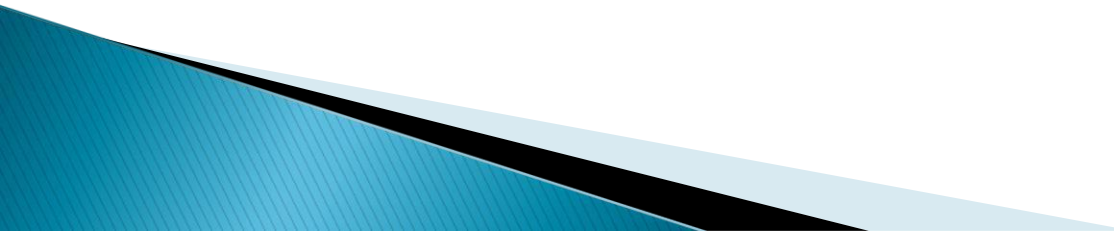


Elbow method used to find optimum value of  $k$  for the given data. >>

# RESULTS AND DISCUSSION




The colors purple, green, and red represents cluster 0, 1, and 2 respectively.

- The results show that the most common business in cluster one at the respective venues are Indian Restaurants.
  - So Indian Restaurants are popular in these tourist venues and opening up a similar one can attract many tourists.
  - Whereas in cluster two the most sought business is the Hotel, Seafood Restaurants, and Cafeterias.
  - The green clusters at the seaside clearly indicate that opening a seafood restaurant would help a person make the best use of the opportunity.
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- Finally, in cluster three Fast Food/Vegetarian Restaurants have been given a top priority.

## Conclusion and Future Directions

Used K-means clustering algorithm to cluster the tourist spots based on exploring the frequency of the businesses that are present which could help indicate a business opportunity that could be established in the locality.

Future possible research could make use of other significant factors which includes the foot traffic,,  


accessibility, and average business rates. These above-mentioned factors could help the system make the analysis more accurate.

## References

[1] Rivero, Marcelino & Cárdenas-García, Pablo. (2014). Population characteristics and the impact of tourism on economic development. *Tourism Geographies*. 16. 10.1080/14616688.2014.889207.

