

Travel Review Segmentation

Abstract:

Understanding the tastes of each user and the characteristics of each product is necessary to predict how a user will respond to a new product. This latent user and product dimensions can be discovered with the help of user feedback. A numeric rating and its accompanying text review is the most widely available form of user feedback. A measure which encapsulates the contents of such reviews is often necessary as they have been found to significantly influence the shopping behaviour of users. A fine-grained form of such measure that could act as perfect feedback about the product is a star rating. The review rating prediction tries to predict a rating corresponding to the given review.

Problem Statement:

Given the google rating data, use a hierarchical clustering algorithm to cluster reviews.

Dataset Information:

This data set is populated by capturing user ratings from Google reviews. Reviews on attractions from 24 categories across Europe are considered. Google user rating ranges from 1 to 5 and the average user rating per category is calculated.

Variable Description:

Column	Description
User	Unique user id
Attribute 1	Average ratings on churches
Attribute 2	Average ratings on resorts

Hierarchical Clustering Project



Average ratings on beaches
Average ratings on beaches
Average ratings on parks
Average ratings on theatres
Average ratings on museums
Average ratings on malls
Average ratings on zoo
Average ratings on restaurants
Average ratings on pubs/bars
Average ratings on local services
Average ratings on burger/pizza shops
Average ratings on hotels/other lodgings
Average ratings on juice bars
Average ratings on art galleries
Average ratings on dance clubs
Average ratings on swimming pools
Average ratings on gyms
Average ratings on bakeries
Average ratings on beauty & spas
Average ratings on cafes
Average ratings on viewpoints
Average ratings on monuments
Average ratings on gardens



Scope:

- Analyzing the existing data and getting valuable insights about the review pattern
- Data pre-processing including missing value treatment
- Cluster the reviews based on the optimum number of clusters ('k') with the help of dendrogram

Learning Outcome:

The students will get a better understanding of how the variables are linked to each other and will be able to apply hierarchical clustering to determine review types.