



# Travel with Nature Using Comment Analysis

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**Abstract:** The motive of our work is to connect people to the unexplored regions of our country which will make people aware of what actual India is and will indirectly uplift or will help in development of underdeveloped regions of the country, we will be using Natural Language Processing to analyze the polarity of the comments of the visitor which will be helpful to the new visitors.

**Key words:** Sentiment Analysis, Machine Learning , Web Development, Polarity, Natural Language Processing.

## INTRODUCTION

Tourism is the dynamic segment that can lead to the development of various sectors and economies. As 2/3rd of India's population resides in rural India. So, we will be connecting our rural and unexplored regions to the world's community of tourists. We will showcase the rich culture and heritage of our actual India which will help that area to gain attention and this will bring overall development to that region. Further, we will be using Sentiment Analysis to analyze the polarity of the views of the visitors regarding that places.

Sentiment analysis is the process of retrieving information about a consumer's perception of a product, service, or brand. We will be analyzing comments just to help travelers know more about the place just by rating them with positive, negative, or neutral tags. Analyzing the opinion of the visitors and then differentiating between positive and negative aspects of places may help the visitors to analyze how and what that place is.

## LITERATURE REVIEW:

S.No	Name	Year	Author	Methods	Review
1.	Nature oriented Tour Operators, Travel to develop Countries[1]	1989	C Denseie and Patric B Durst	Telephonic Survey	Co-operation of the host government and proper market strategies will attract foreign tourist along with healthy environment will promote Nature Oriented Tourism
2	The Measurement Of service Quality In Tour Operations sector. A Methodological Comparision	2006	Simon Hudson, Paul Hudson and Graham A. Miller	Statical Method	Any of the methodology is useful (SERVQUAL, IPA, SERVPERF) but with confidence and Finding validation of survey is must.
3.	Rural Tourism Challenges and Opportunites.	2007	Pilai Halzar	Statical Tool used to analyse data.	According to the Delhi-NCR respondent review 75% of respondents are interested in rural tourism. 86% of respondents said rural tourism will be beneficial for both rural and urban society
4.	Rural Tourism and Rural Development in India	2014	Nagaraju L.G and Chandra Shekhar	_____	It will generate revenue for rural Development and prevent migration of rural people to urban, develop advancement in women, & poverty alleviation.
5.	Sentiment Analysis of Twitter Data through Big Data	2017	Anush N, Divya G., Ramya .B	Naïve Bayes Classification, Training with Mahout	After the training data set has been Prepared, data is analyzed by uploading it on HDFS and Naïve Bayes classification is carried out.



6.	Automated Sentiment analysis of text data with NLTK	2019	Jiawei Yao	NLTK	Through evaluating correlation between user-generated ratings and NLTK generated scores and figuring the boxplot and histogram, we can know the order of words is ignored and important information lost
7.	Tourist Place Reviews Sentiment Classification Using Machine Learning Techniques	2020	Apeksha Arunwadhe and Arun Wadhe.	CountVect orization, TFIDF Vectorizati-On SVM and RF	It will generate revenue for rural development & prevent migration of rural pople to urban , develop advancement in women, & poverty alleviation.
8.	Real Time Sentiment Analysis on Twitter	2021	K Sai Madhu, B Chandrashekhar Reddy, CH Damarukandhan, M Polireddy, N Ravinder	K means Clustering	In the Proposed work, it can be concluded that more efforts were taken to perform the investigation on a huge volume of data, also to analyze the tweets to predict the quality of the cluster, whether they are positive or negative, Neutral.The k-means clustering approach use.

### PROPOSED METHADODOLOGY

To promote tourism in rural and natural India, our work will be mainly focused on those unexplored regions including Couchsurfing. For handling backend we will be using Django framework which is an open-source python framework for web development, also we will be using PostgreSQL for handling data.

Travelers will be adding a review about places and we will be analyzing and showing top positive and negative comments about those places which will help travelers to know more about the place. For doing so, we will be using NLTK (Natural Language Toolkit) Library which is a suite that contains libraries and programs for statistical language processing. It is one of the most powerful NLP libraries, which contains packages to make machines understand human language and reply to it with an appropriate response

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