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Artificial Intelligence

Project on INT-404

Product Review analysis for Genuine Rating.



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Abstract

This system is used to help a user to get a product at its best choice i.e good bad/worsts. The Admin and the user part both are an Android Application thus the front end uses Android Studio and SQL Server as its Backend. This system allows the user to look into a product with different reviews and rating rated by other users and for his simplicity the system shows the overall average rating of that product. The System also allows the user to compare 2 products of the same kind or same category and to rate and review the product as he wishes too but limiting to only once per product. The System is meant to give a rough as well as a much detailed idea of whether the user should go for a product. The System gives a list of sellers and its price offered which is added by the admin for the user's convenience and preference. The Users role is to check out for the product using all the resources offered by the system in finding the best product and give his rating and review. The User is also allowed to give his feedback. The Admin is responsible to add update or delete a product while adding seller's information as well and likewise view users and their feedbacks.

INTRODUCTION

Today E-commerce have become an important part of our day to day life and people are getting dependent on these website products. The user reviews too, are becoming important for customers. So, through this project we are building a chrome plug-in, which rates the E-commerce products based on sentiment analysis of user reviews. With this shopping for customers will become very convenient as well as time saving from reviewing large set of user's reviews.

•MOTIVE

Our motive is to generate future wise rating of the product. Comments of users will contribute to generate overall rating of the product. The goal is to generate rating for products based on customer reviews. Main focus of our project is textually data mining of user comments based on sentiment analysis. We will achieve this using Naive Baye's algorithm as classifier, NLP, opinion word, opinion target and opinion analysis for excluding some basic limitation of sentiment analysis

• FUTURE SCOPE

Service based rating of producers and Easy product recommendations directly from website.

• OBJECTIVE

To extract and analyse opinions from online reviews, it is unsatisfactory to merely obtain the overall sentiment about a product. In the most cases, customers expect to find fine-grained sentiments about an aspect or feature of a product that is

reviewed. We focus on positive and negative sentiments about each topic of the product that are useful for the customers as well as focus on how to improve aspect-level opinion mining for online customer reviews.

PROPOSED SYSTEM

We propose an advanced Products Review analysis system which provides a platform to registered users to rate a particular or multiple products using this system. The system uses product review analysis in order to achieve desired functionality. Product review analysis is a web application which consists multiple products added by admin to review to rate and review them. The System takes reviews of various users, based on their personal opinion, system will specify whether the posted product is good, bad, or worst. We use a database of sentiment based keywords along with positivity or negativity weight in database and then based on these sentiment keywords mined in user review is ranked. Once the user login to the system he views multiple products and gives review about the product. User can view product description, price and links to buy the product. System will use database and will match the review with the keywords in database and will rank the review. The role of the admin is to add new products, their description and also provide link to buy the product into database. Admin can also view added products, view registered users and view system related feedbacks from the registered users. This application is also useful for the users who want to buy new product. This system helps to find out good product based on multiple user's positive reviews.

RESULT AND DISCUSSION:

- The user has to Login to make use of the system keeping the data secure.
- The system helps the user to get the best product with many resources.
- Minimizes user's time.
- User can rate and review a product.
- User can post their own review about the product.
- People can easily decide whether the product is good or bad by using this application.
- Since system ranks the feedback based on the weight age of the keywords in database, so the result is appropriate.
- It requires active internet connection else error may occur.
- Wrong reviews and ratings will affect the overall ratings of a product.
- System will match the opinion with those keywords which are in database rest of the words are ignored by the system.

CONCLUSION:

- This system can be used to by Ecommerce Institution to help their users to get the best product.
- Increase the sales of reviewed products
- Add SEO-friendly review scores to your Google search results

REFERENCES:

- <http://www.takeoffprojects.com/>
- <https://nevonprojects.com/>

Contributions From Our Group:-

Reg No	Name	Section + Roll No	Contribution In Project
11902960	SUMIT KUMAR	K18PT B53	Pogramming and Report.
11810407	Md Muntasir Mamun Siam	K18PT B54	Information Gathering.
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Plagiarism Screen Shot:-