Study on Early Reviewers for Effective Product Marketing on E-Commerce Domain

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Abstract: In today’s world, everyone tends towards the internet. Usage of the internet is increasing day by day. Online shopping trend increases as internet usage increases. Online consumer reviews influence the consumer decision-making. The Web provides an extensive source of consumer reviews, but one can hardly read all reviews to obtain a fair evaluation of a product or service. On the basis of this previous theory the process of computationally identifying and categorizing opinions expressed in a piece of text, especially in order to determine whether the writer’s attitude towards a particular topic, product, etc. is positive, negative, or neutral. So, in this paper we are working on the sentiment analysis of that particular review and gives proper recommendation to end user. We are work on the supervised and unsupervised methodology. This system uses the real-time dataset of the review of the product.

Keywords: Machine learning, Opinion mining, Statistical measures, Early reviewer, Early review.

Introduction:

Nowadays if we want to purchase something, we go online and search for products and look for their reviews. A user has to go through each and every review for getting information regarding each and every aspect of product. Some of these reviews contain large amount of text and detailed information about product and its aspects. A user may have to go through all of these reviews for help in decision making. Some of these products can have large amount of reviews and can contain information about its aspects in the form of large texts corpuses. A user might get irritated while reading all of these reviews and learn about the product. To avoid this, a system is needed that can analyze these reviews and detect the sentiments from these reviews for every aspect. Existing approaches fail to cover the fact if two reviews are mentioning same aspect with two different words. Existing systems considers those as two different aspects. Also, the aspect wise information is not preserved by these systems as they rely mostly on rating that is provided by different users for showing the quality or overall rating. The paper proposes a system that can use this information from reviews to evaluate the quality of these products' aspects. Also, the proposed system categorizes these aspects so that problem with different words for same aspects can be resolved. These aspects are identified using supervised and unsupervised techniques. Then these identified aspects are categorized in categories. The sentiments or opinions user provided for particular aspect is assigned to category of that aspect. Using natural language processing techniques, the opinions are rated in the scale of 1 to 5. These ratings are used to evaluate the quality of the products.

Related work

Opinion Mining and Sentiment Analysis:

Opinion mining is a type of natural language processing for tracking the mood of the public about a particular product. The paper focuses on designing and developing a movie-rating and review-summarization system in a mobile environment. This research examines the influence of recommendations on consumer decision making during online shopping experiences. The recommender system recommends the products to users and to what extent these recommendations affect consumer decisions about buying products is analyzed in this paper. Comparison with the state-of-the-art for opinion mining is done by Horacio Saggion, et.al, 2009. Ana-Maria Popescu and Oren Etzioni introduces an unsupervised information extraction system which mines reviews in order to build a model of important product features, their valuation by reviewers, and their relative quality across products(Oren et. al., 2005).

Motivation:

We all use user's reviews for evaluating quality of product which we wish to purchase online. While looking for a particular feature of a product, user might look for one particular feature of that product. (Ex. Camera in phones) The products having good quality for that feature should be preferred in results. For this, detailed information about features is needed. And a system that can fetch this information from user reviews is needed.

System Architecture:

In our system firstly user will search the product and review that product according to them and using sentimental analysis on that review for generating rating system. If another user will view that product the review will help them.
Conclusion:

A system with two methods for detecting aspect categories that is useful for online review summarization is proposed. This system contains spreading activation to identify categories accurately. The system also weighs the importance of aspect. System can identify the sentiment for given aspect.

Reference:


