Usha Martin Technologies

White Paper – Sentiments Analysis

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SENTIMENTS ANALYSIS - A MIRROR TO BRAND REPUTATION OF ECOMMERCE COMPANIES: A REVIEW

Abstract—This paper provides an analysis of how Sentiment analysis algorithm helps the ecommerce companies to understand their brand perception in the market and help them to redesign their strategies to increase their brand reputation and revenue.

Index Terms— Sentiment analysis, Machine Learning, Artificial Analysis, Natural Language Processing, NLP.

I. INTRODUCTION

The analysis and quick reaction to the customer's opinion about the company's brand / product / services is inevitable for the success of the business. There is a growing trend that the companies started to focus on the tone of the customer along with the positive or negative comments about the products /services they availed from the company as ecommerce companies loses significant portion of their sales as they could not capitalize valuable business intelligence available in the social media posts.

II. BUSINESS PROBLEMS

The ecommerce companies would like to understand about their brand reputation, the positive and negative sentiments and problems faced by their users, product attributes which creates negative impact to the sales, the user needs and understand the trending topics for the content marketing.

III. HOW THE SENTIMENT ANALYSIS HELPS THE BUSINESS?

A. Improve customer experience

Sentiment analysis helps to detect the customer's sentiment on the products / services in their social media postings and classify them as positive or negative. Ecommerce companies can make use these insights to improve their customer experience and their brand image.

B. Achieve competitive edge

The customers those are very much active on social media, expects that their concerns or feedback are heard and replied within sixty minutes by the company. So, it is crucial for the customer support team to react to the customer's post in the social media. Sentiment analysis helps to predict the customer trends and work on the strategies to capitalize and achieve competitive advantage.

C. Insightful Business Intelligence

Companies requires business intelligence to meet and improve their customer's expectations in service delivery. Sentiment analysis provides the required insights about the customer's expectation to define the strategies for improvement of customer service.

D. Market analysis

Sentiment analysis help to discover the latest trends and new business opportunities. It provides an answer to many questions like whether the market is stable enough and the brand is received well, what the customers are taking about our products / services, Is there any untapped opportunities and customers, etc.

E. Brand revitalization



Brand image is none other than the customer's perception about the overall company. Sentiment analysis helps to quantify the customer perception and get the competitive edge in the market.

IV. PROCESS OF SENTIMENT ANALYSIS

The following process is widely followed in Sentiment Analysis;

- Extract the consumer generated content like tweets, comments, status updates, etc., by leveraging the APIs of different social media networks.
- Analyse the tweets, comments, status updates, etc., and build the data dictionary. Classify them into different types of sentiments / emotions
- Apply Natural Language Processing (NLP) techniques and derive the meaningful insights.
- Cleanse the data to exclude sarcasms, idioms and metaphors, etc.
- Conduct the trend analysis across different social media accounts and find the commonality in the sentiments.

V. LIMITATION OF SENTIMENT ANALYSIS

Customer's sentiment about the product or brand may be influenced by many factors. He might have a bad day and it may directly influence his remark negatively. Also, sentiment can change over a period based on his mood. So, it is advisable to go with large sample of data. It will be difficult for an algorithm to understand the sarcasm and ironic language while interpret the sentiment in isolation. So, there is a need to train the model rigorously.

VI. CONCLUSION

There are many studies available on the implementation of the sentiment analysis which provides helping hand to ecommerce companies to get to know about their brand reputation in the market but comprehensive details on this topic is required. In this study, we have discussed the processes to be followed, best practices and limitations of Sentiment analysis. This study will provide Artificial Intelligence Practitioners a better view on how to approach Sentiment Analysis.

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We help companies in the digitization process and help them to transform their offerings digitally with a robust end-to-end implementation ecosystem and round the clock support.

Our diversified cross-industry clientele base in Retail & CPG, Telco and Manufacturing, with the objective to create a 'Business Technology Platform' to address areas around Customer Connects and New Business models to be agile, without disrupting businesses and transforming the Digital Journey of its customers.

WHAT WE DO:

Digital Solutions: Our Digital Consulting Services delves deep into organization's ecosystem and touches every aspect of the business that includes connected customer engagement, process and information excellence, market growth, delivery channels, partner collaboration among others. Through our Digital Business Services, we assist enterprises to identify the gaps between their current and envisioned processes, to assess readiness and map opportunities.

Revenue Management: UMT offers industry agnostic end-to-end billing solutions for its customers to achieve their revenue management goal through its tailored solutions, based on flexible, high-quality products like digital commerce, marketing, retail and wholesale billing including mediation & provisioning.

Mobility: UMT has extensive expertise in custom mobile application software development and has vast experience in developing Mobile Applications across diverse platforms and devices using latest techniques for all major platforms.

Analytics: UMT provides Business Intelligence (BI) solutions that allow our clients to transform data into knowledge for quick and effective decision making. Our deep knowledge of Telecom BSS helps us to accelerate the activities in Business Analysis, Source to Target mapping and Data Model design because we understand the data and its typical needs.



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