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Twitter Data Visualization

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ABSTRACT: Twitter is the leading micro-blogging and social network service and is attracting an enormous amount of attention in recent years. Users on Twitter generate an abundance of information every day, establishing Twitter as the focal point for analyzing and visualizing social media data.

In this paper, we present a web api for visualizing Twitter data, several different kinds of visualizations .Analyzing social media, in particular Twitter feeds for web-based application programming interfaces (APIs) provided by Twitter, . The study explored the Twitter profile of a select institution in terms of frequency of posts, number of user interaction, and intensity of trending topics.

KEYWORDS: social media, Twitter Communication Information visualization, Social network analysis, Twitter api.

I. INTRODUCTIONS

Twitter is a social networking and micro-blogging service that enables users to send and read short messages. These messages, also known as tweets, are maximum 140 characters long. As of this year, Twitter has over 271 million monthly active users and over 500 million tweets sent per day. As a result of the massive amount of data generated on a daily basis. The Twitter community uses the service as way of sharing personal thoughts and ideas, posting news and discussing popular topics. It is also used in marketing purposes by companies, institutions, politicians, celebrities etc

A. Motivation:

Our motivation in this work is to use twitter visualization techniques with wearable computing devices to generate additional inputs for twitter visualization system's api, and to enhance the accuracy of the resulting twitter recommendations. This paperwork would not have been possible without the guidance and the help of several individuals who in one-way or other contributed and extended their valuable assistance in the preparation and completion of this study. The author is very thankful to all the researchers in this ever growing field who have contributed their time and knowledge. I would like to express my deep sense of gratitude to Udesang K. Jaliya and Darshak G. Thakore for their valuable guidance, motivation and forgiving me such an opportunity to explore new ideas. I appreciate all my friends whose direct and indirect contribution helped me a lot to accomplish this survey work and who made the period of my work more pleasant and fruitful. I would also like to thank all the teaching and non-teaching staff for cooperating with me and providing valuable advice and resources which helped me in the completion of this work

B. Objectives and goals:

- ▶ The primary objective of this work is to develop a twitter visualization quality monitoring system and twitter data visualize.
- ▶ Our main objective will be to identify the Twitter communication model developed by and show the twitter user data and message.

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II. RELATED WORK OR LITERATURE SURVEY

Advanced visualization of Twitter data for its analysis as a communication channel in traditional companies

The adoption of Twitter as communication channel can provide a significant benefit to firms, allowing them to improve their reputation and check its consistency with their mission and goals, monitor how customers respond to a business decision, and achieve product awareness. However, Twitter engagement is difficult for many companies due to the large amount of human and financial resources required. The aim of this contribution is to identify the situation of Twitter adoption by those kinds of traditional companies, aiming to discern the communication strategies applied from a global and relational view, analyzing the common and differential characteristics

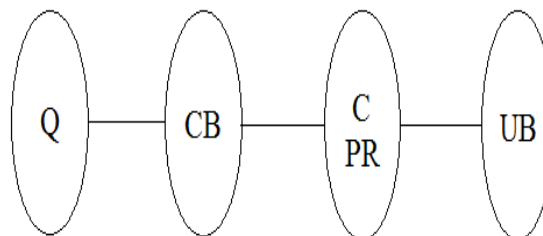
TWEETVIZ: TWITTER DATA VISUALIZATION

In this paper, we present a web tool for visualizing Twitter data, TweetViz. TweetViz offers several different kinds of visualizations that can pertain to a Twitter user or any keyword or hashtag entered through the interface. TweetViz also includes a so called Streamgraph visualization that represents topic distribution in a set of tweets. The topic distributions are created using LDA (Latent Dirichlet Allocation).

Social media analytics: a survey of techniques, tools and platforms

This paper is written for (social science) researchers seeking to analyze the wealth of social media now available. It presents a comprehensive review of software tools for social networking media, wikis, really simple syndication feeds, blogs, newsgroups, chat and news feeds. For completeness, it also includes introductions to social media scraping, storage, data cleaning and sentiment analysis. Although principally a review, the paper also provides a methodology and a critique of social media tools.

III. MATHEMATICAL MODELING



Where,

Q = User entered message

CB = twitter api

C = show the live tweet

PR = Recommend

UB = show the user details

Set Theory

1) Let S be as system which input image

$S = \{In, P, Op, \Phi\}$

2) Identify Input In as

$In = \{Q\}$

Where,

Q = User entered input message

3) Identify Process P as

$P = \{CB, C, PR\}$

Where,

CB = use for twitter api

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C = show the live tweet
PR = Recommend user information

4) Identify Output Op as
Op = {UB}

Where,

UB = Update Result
 Φ = Failures and Success conditions.

Failures:

1. Huge database can lead to more time consumption to get the information.
2. Hardware failure.
3. Software failure.

Success:

1. Search the required information from available in Datasets.
2. User gets result very fast according to their needs.

Space Complexity:

The space complexity depends on Presentation and visualization of discovered patterns. More the storage of data more is the space complexity.

Time Complexity:

Check No. of patterns available in the datasets = n

If (n>1) then retrieving of information can be time consuming. So the time complexity of this algorithm is $O(n^n)$.

IV. EXISTING SYSTEM AND DISADVANTAGES

In this paper, we shed light on the utilization of a twitter apifor twitter keyword or hashtag. We also propose a not so well explored approach of visualizing topic distribution in a set o tweets over some time interval. Topic distributions are produced with the LDA algorithm. Our web tool TweetViz can be of use to anyone interested in exploring Twitter activity and provide for a nice visual way of analyzing data from Twitter.

Disadvantages:

- There isno guarantee that the data visualized is correct Mostly.
- Time consuming process.

V. ADVANCED SYSTEM AND ADVANTAGES

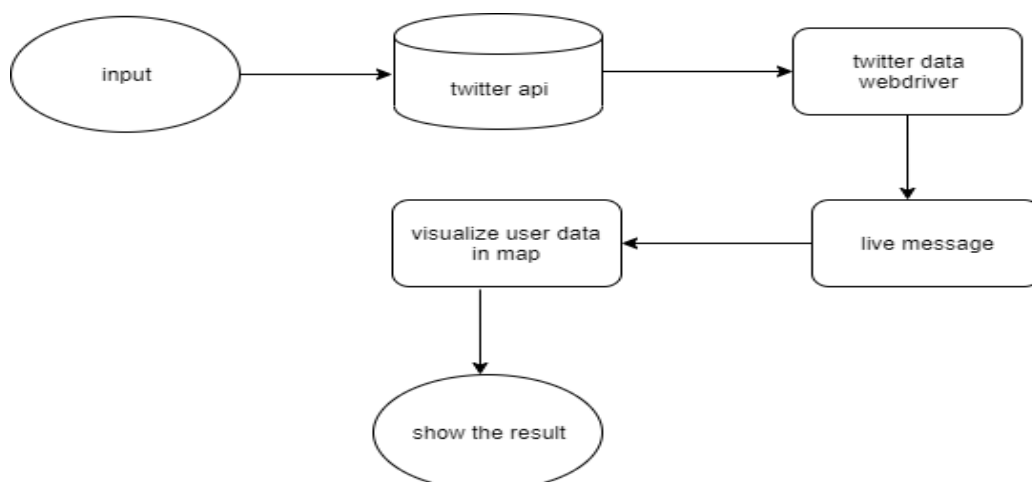


Figure: Advance System Architecture



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In this study, geometric information is used to reduce the search regions for the facial component from the detected face in order. The existing scheme cannot work reasonably balance privacy and data utility. Existing systems are very complex in terms of time and memory requirements for extracting facial features in real time. Some existing systems tend to employ the use of human speech or sometimes even the use of additional hardware for generation of an automated playlist, thereby increasing the total cost incurred

Advantages:

- 1) advantage of the vast amounts of user-generated text and user information content online.
- 2) One advantage of this tool is that it builds visualizations on up-to-date data, unlike some approaches that use static, previously retrieved data.

V. CONCLUSION

Analyzing data can be greatly simplified by visualizing it first, which is more appealing to the eye. In this paper, we present our web tool for analyzing and visualizing data generated from the micro-blogging service Twitter. TweetViz offers a set of user-orientated and keyword-orientated

Future Scope

Data visualization — as I've observed — has been changed due to developments in three broad areas. Streaming instead of static data, changing context and better data processing and design tools. This will profoundly change how data visualization will influence our future lives.

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