ABSTRACT
The World Wide Web is a valuable information source which is used for information retrieval and also knowledge discovery. With the enormous growth of information accessible to end users through the web, search engines perform an essential role in retrieving and organizing appropriate data for several purposes. The ranking of the web pages for the web search engine is one of the main issues currently. Page Rank is widely used for ranking web pages in order of relevance by mostly all search engines world-wide. The page ranking algorithm shows the popularity of a web page in its page rank score. The main purpose of this research is to find out an efficient approach so that users can get the relevant results from the web search engines. A quick and efficient page ranking system for web retrieval remains as a challenge.

KEYWORDS: WWW; Data mining; Web mining; Search engine; Page ranking

I. INTRODUCTION
Generally, we know that web is the largest source of data. During the past few years the World Wide Web has become the major and most popular way of communication as well as information dissemination. With the rapid development of internet, the number of internet users in the world is increasing quickly. The search engines are used to perform this purpose. They are used to collect, organize, index and also serve results in its own unique way. However, all major search engines like Google, Yahoo, and MSN, etc follow some general rules. When a user enters a query at a search engine site, then it returns a huge number of pages in response to the user query. Every search engine depends on its Ranking mechanism so that the user can find the most important and appropriate results first. There are three basic aspects of a web search engine known as Crawler, Indexer and Ranking Mechanisms. The search engine downloads, index and store up hundreds of millions of web pages. Every search engine uses web mining techniques and ranking mechanism for retrieving the information effectively. Fig: 1 shows the basic working strategy of every search algorithm.
Fig: 1 Basic Flow chart of Search Engine

**Web mining**: Web mining is the application of data mining techniques to find interesting and potentially valuable information from the web. Normally, it is expected that either the hyperlink structure of the web or web log data or both have been used in mining process”. “Web mining is dependent on knowledge discovery from web, extract the knowledge framework represents in an appropriate way. Web mining is like a graph and all pages are node and each connects with hyperlinks. Web mining is useful to extract the information, image, text, audio, video, documents and multimedia. Web mining can be classified into three parts of interest based on which part of the web to mine:

a) Web Content Mining  
b) Web Structure Mining  
c) Web Usage Mining

**Web Content Mining**: Basically, Web Content Mining is the process of extracting the useful information and knowledge from the web page content. The primary resources that are mined in WCM are individual pages.

**Web Structure Mining**: Web Structure Mining can be defined in terms of graphs. The web pages are represented as nodes and Hyperlinks represent as edges. Mainly, it’s shown the relationship between user & web. The motive of web structure mining is generating structured summaries about information on web pages/webs.

**Web Usage Mining**: Web Usage Mining is the process of discovering the data stored in server access logs, user profile and pattern in user browsing the web pages.

II. PREVIOUS WORK DONE

**Wenpu Xing (2004) [1]** states that with the rapid growth of the Web, users get easily lost in the rich hyper structure. Its results show that WPR performs better than the conventional Page Rank algorithm in terms of returning larger number of relevant pages to a given query.

R.Manoharan (2011) [3] states that web services are dynamic applications that are published over the network to help in data exchange between systems and other applications. It also proposed a new ranking method which is a hybrid of matrix ranking method and QoS based fuzzy ranking method.

HemaDubey (2011) [4] proposed a new page rank algorithm which uses a normalization technique based on mean value of page ranks. The proposed scheme reduces the time complexity of the traditional Page Rank algorithm by reducing the number of iterations to reach a convergence point.

AdityaPratap Singh (2011) [5] proposed an efficient method to rank the research papers from various fields of research published in various conferences over the years. This ranking method is based on citation network. The importance of a research is that it well captured by the peer vote, which in this case is the research paper being cited in other research papers.

Christian Borgs (2012) [6] developed a nearly optimal, sublinear time, randomized algorithm for a close variant of this problem. When given a directed network G = (V, E), a threshold value \( \Delta \), and a positive constant \( c > 3 \), with probability \( 1 - o(1) \), algorithm will return a subset \( S \subseteq V \) with the property that \( S \) contains all vertices of Page Rank at least \( \Delta \) and no vertex with Page Rank less than \( \Delta/c \). The running time of our algorithm is always \( O(\sqrt{n \Delta}) \).

Ms.N.Preeth (2012) [7] states that web information retrieval deals with a technique of finding relevant web pages for any given query from a collection of documents. Search engines have become the most helpful tool for obtaining useful information from the Internet.

SharmilaSubudhi (2013) [8] deals with a hybrid approach of page ranking algorithm which simply based on the prediction and calculation of different numbers of back-links to a web page.

Madhurdeep Kaur, (2014) [9] proposed a Hybrid Page Rank Algorithm with an Efficient Approach, as the web is escalating day by day, so the most concerned issue for the users would be how to collect the useful information and to find their genuine information effectively and quickly. It also presents the comparison between Sim Rank Algorithm and the Hybrid Page Rank Algorithm.

III. PROPOSED SYSTEM

As per the usage of internet is increasing daily. The use search engine is very vast. Every search engine uses its different algorithm to give better results on searching. However there are different algorithms used with different strategies. Some of the algorithms used are based on different approaches and different parameters. There were some disadvantages with previous techniques such as Static Approach. So in proposed work we have used certain different parameters to overcome that disadvantages. This algorithm follows both the techniques of static and dynamic approach. As there is a huge amount of content present on websites, so we will use different parameters to filter the user search easily. The Fig: 2 shows the flow of proposed system.
As the diagram shows the system is based on the dynamic approach. When the user wants to search some content they will refer to some search engines with the help of keywords. So this approach will not just focus only on single parameter, in turn it will enhance the search by filtering the content will different approaches and parameters.

IV. METHODOLOGY

The methodology used for present work is totally based on dynamic approach and different parameters. The parameters used by other algorithms were not so effective to give better result. So here in this approach we have used various parameters with dynamic approach in order to enhance the results. The different parameters can discuss as:

1. WEB CONTENT

- Primary web pages are copied into the document to make them accessible for the manipulation purposes. Output will be resultant value shown in the MATLAB.
- After copied of the content, text files loads in the MATLAB for matching keyword with the content saved in the file and then keywords will be matched accordingly will helps to obtain the count value.
Thus, Preceding stage generates count value which is based on the number of occurrences of a particular keyword in the whole document.

Prior scaling of count value evaluates threshold value of the keywords which should be varies from 2 to 3 times and stored in the variable.

2. LINK RANK

Link rank helps to prioritize your site through inbound and outbound link ranks. In this course of action, keywords has been taken from the user and then search particular results that will direct the users to your site. Purposely, keyword is asked from the user manually so that it can be stored in the form of matrix in MATLAB variables.

- Inbound is also referred as hyperlink, which directs the user to another page whose reference in included in that page. In our work, we will calculate links manually in case of inbound.
- On the other hand, outbound is when the other link will lead the user to your page. It is user defined and can be randomly generated data which can be entered by the user. Consequently, in the outbound, we will take ask from user.

3. KEYWORD DENSITY

Keyword density parameter is applied for exploring relevant data in the document. Or in other terms it explains whether the contained keyword document is having with some useful information or not.

- After acquiring matrix, source will be load by using MATLAB inbuilt function named as “urlread”. Through this function URL of text file will be read or load in form of string.
- At last keywords will be matched with the string till end of the document and obtain count ratio (count of keywords with respect to web content) which should be lies between 3 to 7%. For example. If count of keywords is 19 has obtained from the matching parameter and it lies in 3 to 7% of string ratio then count range will be from 0 to 1. Above that range is reduced keyword density.

4. KEYWORD PREFERRED INDEX

After application of above steps next step is to find the keyword preferred index or to find the ranking of your web page. For the given criterion, formula is evaluated through three parameters along with weightage given to individual parameter according to their preference in page ranking.

Several parameters have different weightage according to their priority in page ranking. As in the given formulation, W1 i.e. weightage one is given to web content as it is important to make it accessible over the network as well as prior stage in page ranking. Further W2 means weightage two which is assigned to keyword density as after the content of web defined; relevancy of data is next prior stage and lastly weightage three is for the link rank that defines priority of your site.
V. CONCLUSION

We have proposed an efficient method to achieve this cause. As wide range of information is present on the web, the users spend a lot of time to get the information that is most related to them. This paper presents an enhanced page ranking algorithm where additional factors like different parameters will be applied so that most relevant pages are retrieved. In this way, it helps users to get the relevant information about their queries quickly. Thus, this dynamic approach of page rank algorithm more accurate and efficient than static approach.

REFERENCES