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A Study on World Wide Web Information Retrieval and Web Search Techniques

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ABSTRACT: This paper is concerned with study and analysis of information retrieval and web search. To extract and uncover knowledge from web documents and services is said to be web mining. Generally web contains huge collection of documents plus hyperlink information to access the web pages. Information retrieval is given as source of document based on the user's query. It deals with various information retrieval techniques and web search methods, the analysis of both methods are discussed and listed some of the existing methods to find the results on this survey. The result not only proves the advantage of those methods but also compared the previous extraction and searching techniques.

KEYWORDS: Information Retrieval, Web Search, Web Mining, Web Data Mining, Searching Techniques.

I. INTRODUCTION

The World Wide Web (WWW) is commonly known as hyper media information retrieval or client server model. Hypertext was invented by Ted Nelson in 1965. Tim-Berner's Lee was invented the web in 1989. Then in 1989 Lee invented the distributed hyper text system for communication between client and server. HTTP, HTMI, URL are also started in the year of 1993. Marc Andreessen released the first mosaic for x graphical web browser for UNIX. Then in mid 1994 jm Clark collaborated with marc and then released Netscape browser [3]. In 1995 Microsoft entered in the market to challenge nets cape browser. In 1969 & 1972 ARPANET connections were made and TCP/IP was developed by Vinto Cerf & bob khan in the year of 1973. TCP/IP was birth and connected as internet in the year of 1982. In 1993 search systems was introduced by Stanford university students. Then in 1994 yahoo was created by jerry yang and David filo. Google was launched in 1998 by Sergey Brin and Larry page. Msn search engine was launched in the year of 2005.

Web data mining is said to be the amount of data on the web is still growing and contains all types of data. It makes challenging for integrating multiple pages and hyperlink with many other pages. The information on the web is noisy it contains two source i.e., a web page contains a piece of information and another one web does not have quality control of information. Data mining is also known as Knowledge Discovery Process (KDD). To discover useful patterns in the web, there are many data mining tasks some of the common tasks are classification, clustering, association, rule mining and sequential pattern mining. It is carried out in three main steps namely pre-processing, data mining and post processing. Web mining is used to discover useful information or knowledge from the web. It is categorized into three types web structure mining, web content mining and web usage mining. It is similar to data mining process, the main difference is data collection and the same three step process is as follows data pre-processing, web data mining, and post pre-processing [3].

Information retrieval helps the user find needed information from a large collection of text documents. The documents are web pages; generally the architecture of information retrieval contains the user, query operations, retrieval system, document index, indexer and document collection. The user query represents the user's information such as keyword queries, Boolean queries, phrase queries, proximity queries, full document queries, natural language



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questions. The Boolean model is one of the earliest and simplest information retrieval model, both the query and retrieval are based on Boolean algebra such as document representation, Boolean queries, and document retrieval. Vector space model is widely used in information retrieval model such as document representation, term frequency scheme, inverse document frequency and queries, statistical language model based on probability and have foundations in statistical theory [3]. To improve the retrieval effectiveness there are many techniques to retrieve the result such are the rocchio method, machine learning methods and pseudo relevance feedback.

II. RELATED WORK

Collection of documents is used for retrieval. There are some traditional text documents such as stop word removal, stemming and handling of digits, hyphens, punctuations and cases of letters. The basic method of web search and information retrieval is used to find the documents based on the user query, there are various schemes available such as inverted index, index construction, index compression. Each scheme includes a method for coding and decoding. These methods are unary coding, elias gamma coding, elias delta coding, golomb coding, variable type coding. The web search method is based on crawling the pages on the web. Those pages are then parsed, indexed and stored; the operations of web search are as follows parsing, indexing, searching and ranking, occurrence type, count and position. Several search engines used together to produce meta search engine. Some techniques with ranking mechanism using combination using similarity scores and combination using rank positions.

There are some bulk websites and links are available in the web [1], to retrieve the useful information various tools and search techniques are used to fetch the information [6][7]. Keyword search is very difficult and its drawback of the existing tool is precision and recall [4][15]. There are various model bring information retrieval research based and web search engine. Searching for information is mentioned by vannevar bush in the year of 1945[11]. After that information retrieval was introduced and many techniques are brought in. web search engines are scaling up in the year of 1994-2000 to improve the search quality some goals are designed they are improved search quality, academic search engine research [8]. Mainly the information is retrieved based on the text, so the text retrieval is based on full text scanning, signature files, inversion, and vector model and clustering, using semantics information and so on.

Electronic search tools may interpret search terms using Boolean operators, phrase and proximity searching, truncation or wild card functions, case sensitivity, fields, stop words and relevance sorting. The important problem of information retrieval is user analysis the problem depends upon the information needs, how to process the information, is it closer to finding the solution for the problem, knowledge representation, processing of information and system evaluation. The general applications of information retrieval systems are as follows digital library, search engines and media search [2].

Sno	Author Name	Title	Models	Techniques
1	Tanveer J.	Integrating Notion of	Intelligent	Combination of conceptual
	Siddiqui, U. S.	Agency and	multi-agent	graph and multi-agent
	Tiwary	Semantic in	method	model
		Information Retrieval		
		multi-agent model		
2	Yi Xiao, Ming	Intelligent	Multi agent	Analysis agent, filter agent,
	Xiao, Fan Jhang	Information Retrieval	system	feedback agent.
		Model		
		Based on Multi-		
		Agents		
3	Jianguo Jiang,	The Technology of	Semantic web	Precision and recall
	Zhongxu Wang,	Intelligent		
	Chunyan Liu,	Information Retrieval		
	Zhiwen Tan,	Based on the		
	Xiaoze Chen,	Semantic Web		
	Min Li			
4	Wenjie Li,	Semantic Web-	Ontology and	Ontology web language

III. ANALYSIS OF INFORMATION RETRIEVAL AND SEARCH TECHNIQUES



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IV. CONCLUSION AND FUTURE WORK

This research aims with study and analysis of web information retrieval and web searching techniques. The information retrieval is used to find the relevant information based on the user's interest. Similarly web search contains huge amount of information connected from around the world. To extract the information retrieval methods are used to find out the solution. To improve the quality and effectiveness of search mechanism between the methods in various problems may use both the techniques and identified the results. It remains the depth of the research is interesting in future.

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