

## A STUDY OF DIFFERENT WEB MINING TYPES

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***Abstract**— The World Wide Web is repository where extremely huge amount of information is available and the useful information is mined for making knowledge. Web mining is a data available on internet. Web mining for web pages is a process of discovering and extracting useful and relevant information from extremely large web data. The web is rapidly updating and expanding day by day and huge amount of data are there. In such case web mining is becoming a very challenging task. This paper covers different types of web mining and there usage for retrieving web pages*

***Key words**— Mining, Data Mining, Web Mining, Web Content Mining, Web Structure Mining, Web Usage Mining*

### **INTRODUCTION**

World Wide Web (WWW) is a widespread and collaborating medium with excellent growth of amount of web pages. World Wide Web has made it essential for users to operate automated tools in finding the desired information resources . The World Wide Web is the collection of text files, documents, images, and other forms of data in unstructured, semi structured and structured form. The Web is the largest data source in the world . Classification plays a critical role in many information management tasks and reclamation tasks. To find accurate information from web is very difficult and crucial task now days because of its size in nature. To find accurate information from web is very

difficult and crucial task now days because of its size in nature. In this paper I try to illustrate some types of web mining which helps to classify web pages from www.

### **Mining**

Normally what is mining, in general when a diamond is extract from coal mine is called mining.

In general mining is coal becomes diamond by processing it in different stages. So when we extract useful information from large amount of data than mining process is in picture. So mining is just finding pattern from large amount of data which makes us for taking decision about some case.

### **Data mining**

Data mining is a process by which we can generate new knowledge or pattern from huge amount of data. In atomization and computerization huge data repositories are used. Finding knowledge from raw data available in huge data repositories using some patterns is a very challenging task. Data mining refers to the finding or extracting knowledge from extremely large data repositories by using some patterns. Different techniques are available for data mining such as Data Classification, Sequential Patterns, Clustering, Regression ,

Association Rules etc.[10]



(fig-1)

**Web Mining:**

Web mining is an extension of data mining because data mining is done from databases which are local in computer and it is structured data but in web mining data are webpages which available on internet so they are unstructured or semi structured so it becomes too hard to mine them. In data mining data to be mined is generally private means some organization whereas data is public in web mining because they are resides on large repository WWW. Web mining is the process of extracting and finding knowledge from web data. Web data consists of:

Web content –text, image, records, . Web structure –hyperlinks, tags, etc. Web usage –http logs, app server logs, etc



(fig-2)

**Methodology**

Web mining has three general types. Here we discuss all the types in detail.

**A. Web Usage Mining**

It provides the information that describes the usage patterns of Web pages, such as IP addresses, page references, date and time of accesses, other information depending on the log format, free texts, HTML Files, XML Files, Dynamic Content, and Multimedia Files. In this mining how users is using web pages is main focus and finding that knowledge to check pattern.

The web utilization mining has comes as the crucial device for understanding extra personalized person high-quality and commercial enterprise elective net offerings primarily based on facts logs of consumer interaction with the web which includes citing pages and person recognition, net log may be proxy server logs, net server logs, and browser log. In internet mining facts utilization is website online content records of site visitors, internet server logs amassed from external channels destiny application information[11]

**B. Web Structure Mining**

In this mining how web site pages are interlinked each other and ho the structure of web pages are there all this information are taken together to find out the page related information.

Web Structure Mining is about extracting information from the hyperlinks. Significant web pages may be identified; Google search engine use Page Rank and HITS (Hypertext Induced Topic Search) algorithm. These algorithms are

influential to social community analysis (measures of the degree of prominence of an actor in a social community).

Pages are rated to their status or authority. The Web is taken into consideration a virtual social network pages being the links, social actors and the relationships.

### C. Web Content Mining

In web content mining we have to mine the contents of web pages like audio, text, video or any multimedia if there. Normally this data are unstructured so it is not very easy to do this type of mining. Content method the perceptible information inside the net pages or the statistics which was denoted to be made regarded to the customers. A vital part of it encompasses textual content and snapshots (pictures). Since a text file positioned forwards as now not system-readable semantic, so a few methods have been counseled that are used to restructure content of document in an outline so that machines can apprehend it together with Free texts, HTML Files, XML Files, Dynamic Content, Multimedia Files.[11]

### CONCLUSION

Here I conclude that above three types of web mining are different in nature and do work differently. Whenever we want to find behavior of a user than web usage mining is best technique to find out it and whenever we want to find and classify a web page as per structure or tags than web structure mining is preferable and some time we want to find each and every content that use to make web pages than web content mining is very useful. This three types of mining is performed on structured unstructured or semi structured data. Normally web content mining is performed on unstructured data as compare to structure

mining.

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