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Marathi News Paper Websites: A Webometric Study

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Abstract - The purpose of this paper is to evaluate Marathi newspaper web sites using Alexa Internet' a subsidiary company of Amazon.com which provides commercial web traffic data.. It is one of the most well known tools for evaluating websites that offers a free- of- charge evaluation service. The present study has been done by using webometric methods. The 13 leading Marathi newspaper websites from Maharashtra are taken for evaluation in the present study. Each newspaper web site was searched in Alexa databank and relevant data including traffic rank, pages viewed, speed, links, bounce percentage, time on site, search percentage, and Indian/foreign users were collected. Further these data were tabulated and analysed. The results of this study show that Deshonatti has the highest traffic rank in India as well as global. Divya Marathi has the highest number of average pages viewed per day and estimated daily time spent on site by the visitors. The fastest downloading speed is for Lokmat and Maharashtra Times has the highest number of links. Punyanagari has the lowest bounce percentage. Highest percentage of visits that came from search engines is for Punyanagari. The highest number of foreign users is for Tarun Bharat. Most of the foreign users to Marathi newspapers come from the Gulf countries like United Arab, Pakistan.

Keywords: Webometrics, Newspaper, Marathi Newspaper website, Alexa internet, Alexa databank

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INTRODUCTION

Newspaper is one of the primary communication tools of the society. These are _'the most effective source of current and up to date information ''(Sutar, 2007). The advancement in ICT and the increased reliance on digital information among the people have compelled several news providers or newspaper industries to launch their own websites or online versions of the existing print news papers for disseminating up to date news and other products. Compared with traditional news media, online newspapers have remarkable advantages including their ability to provide up-to-date information, rapid access to a large number of newspapers and their archives without additional expenses, the advantages of being interactive and paperless, the possibility to bookmark, print or save and edit the contents of online newspapers (Haneefa & Nellikka, 2010).

The press in Maharashtra is healthy, strong and vibrant. The majorities of Marathi newspapers exists on the web and are addressed to a broad spectrum of readers. Therefore, it is vital to improve newspaper websites by investigating and evaluating those using webometrics methods. Webometrics methods measure the web to get knowledge about the number and types of hyperlinks, structure of the web and usage patterns⁵. Websites' attributes can be measured using various search engines like Altavista (Smith, 2005) and Yahoo (Kanellopoulos and Kotsiantis, 2012). In this research we used the Alexa Internet tool which was the instrument in the previous studies (Shen et al., 2006; Jowkar & Didegah, 2010; Bhat, 2013; Kanellopoulos & Kotsiantis, 2012).

ALEXA: A TOOL FOR WEBSITE EVALUATION

Alexa Internet started in April 1996 by American web entrepreneurs Brewster Kahle and Bruce Gilliat and presently it is a California-based subsidiary company of Amazon.com which provides commercial web traffic data. Currently, Alexa Internet is the most well known tool for evaluating websites that offers a free- of- charge evaluation service. Alexa data is collected from millions of its Toolbar users. Alexa continually gathers various types of information (from all public websites) such as traffic rankings, number of page views, links pointing to sites, average time on site per user, etc. Alexa Toolbar users access various websites and Alexa computes websites' traffic by analysing the web usage of millions of Alexa Toolbar users and data obtained from other diverse traffic data sources. The traffic is based on three months' aggregated historical data and is a combined measure of pages viewed and number of users (reach). After calculating websites' traffic Alexa ranks all covered websites based on this traffic. Therefore, the best websites are those with the lowest numbered rank. The closer a website gets to #1, the more reliable its traffic ranking becomes, while traffic rankings of 100,000 and above are not reliable. (Alexa Internet, 2016a). Alexa is a very powerful tool used to rank web site traffic. Find out how your web site traffic stacks up against all your competitors. This is one of the most accurate freely available tools to find out how well your site ranks up against millions of other sites on the Web (Alexa Internet, 2016b). Alexa offers various websites attributes including: traffic rank, pages viewed, speed, links, bounce percentage, time on site, search percentage and local and foreign users which are formed the foundation of evaluation in the existing study. The same has been given in the (Table 1).

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Websites attribute	Definition			
Traffic rank	It is an estimate of popularity in a specific country. Alexa computes			
	web sites' traffic by analysing the web usage of millions of Alexa			
	toolbar users and data obtained from other diverse traffic data			
	sources. The traffic is based on three months of aggregated			
	historical traffic data and is a combined measure of pages viewed			
	and users (reach) (Alexa Internet, 2016).			
Page views	It is an estimated percentage of global page views. Page views			
	measure the number of pages viewed by site visitors. Multiple page			
	views of the same page made by the same user on the same day are			
	counted only once. The page views per user numbers are the			
	average numbers of unique pages viewed per user per day by the			
	visitors to the site. The three-month change is determined by			
	comparing a site's current page view numbers with those from			
	pages viewed three months ago, which reflects the average number			
	of pages viewed by users in a certain web site. Page views/user is			
	the estimate of daily unique page views per user (Alexa			
	Internet,2016).			
Speed	Speed is the measure of average load time. Web pages downloading			
	speed that reflects the average time for opening pages of a certain			
	web site (Alexa Internet,2016).			
Links	A measure of reputation, which includes a number of web sites			
	connected to a certain web site which shows its popularity (Alexa			
	Internet, 2016).			
Reach	Estimated percentage of global internet users (Alexa Internet,			
	2016).			
Bounce percentage	Estimated percentage of visits that consist of a single page view			
	(Alexa Internet, 2016).			
Time on site	Estimated daily time on site (mm:ss) (Alexa Internet, 2016).			
Search percentage	Estimated percentage of visits that came from a search engine			
	(Alexa Internet, 2016).			
Users	The percentage of people who visit a web site (local and			
	international) (Alexa Internet, 2016).			

Table 1: Alexa web attributes for ranking websites

OBJECTIVE

The objective of this study is the evaluation of Marathi news paper websites based on 8 Alexa indexes including: traffic rank, pages viewed, speed, links, bounce percentage, time on site, search percentage, Indian and foreign users.

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SCOPE

The scope of the present study is limited to 13 newspaper websites in Marathi from the state of Maharashtra.

REVIEW OF LITERATURE

Website evaluation provides useful information for users to estimate sites validation and popularity. So far, a number studies using webometrics methods have been done by various authors on different websites. Here is an attempt is made portray some of the website evaluation studies using Alexa Internet as tool for evaluation.

Shen et al. (2006) evaluated 15 university library web sites, using six indices as library web site evaluation criteria: traffic rank, visits, connectivity, speed, pages viewed, and freshness.

Khaparde V. S. (2012) Content Analysis of Online news papers in Maharashtra. There is little research that focuses specifically on the contents and design of online newspapers in Maharashtra therefore a need was felt to analyses the contents and design of online newspapers in Maharashtra. This paper gives an informative preview of the contents and design of newspapers in Maharashtra and will be useful for evaluating deploying online newspapers and news websites. Khaparde V. S. (2016) Websites of Engineering colleges: a Webometric Analysis. Webometrics is concerned with measuring aspects of the web, web pages, parts of web pages. This study examines 21 engineering colleges affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. It Investigates the domain systems of the websites, analysis the number of web pages and link pages and calculates the simple web impact factor, self link web impact factor, external link web impact factor and revised web impact factor and ranks the websites as per the Web Impact factor. Naheem K.T. (2016) Malayalam News Paper Websites: A Webometric Study Using 'Alexa Internet' The Result Study Show that regarding Malayalam newspaper web sites for eight indexes (traffic rank, pages viewed, speed, links, bounce percentage, time on site, search percentage and Indian/foreign users) as obtained from Alexa Interne. Jowkar & Didegah (2010) evaluated Iranian newspapers' web sites based on the criteria obtained from Alexa search engine using correspondence analysis. Results show that most Iranian newspaper web sites do not act successfully on the web and need much attention. Bhat (2013) evaluated Indian newspaper websites using Alexa Internet. The results of this study show that Dainik Bhaskar has the highest traffic rank. Punjab Kesari has the highest number of average pages viewed per day and estimated daily time spent on site by the visitors. The fastest downloading speed is for Economic Times. Hindustan Times has the highest number of links. Decan Herald has the highest reach amongst the global internet users, whereas Udayavani has the lowest bounce percentage. The highest percentage of visits that came from search engines is for Dainik Jagran. The highest number of foreign users is for Ananda Bazar Patrika. Most of the foreign users to Indian newspapers come from the USA. Kanellopoulos & Kotsiantis (2012) evaluated Greek newspaper websites using clustering and a number of criteria obtained from the Alexa search engine. Based on data obtained from Alexa, the Naftemporiki newspaper has the highest traffic rank and the *Eleftherotypia* newspaper the largest number of links among others.

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The *Macedonia* has the largest number of foreign users. The results of the study also show that most newspaper websites' visitors come from the UK. Actually, the above mentioned studies inspired our research for evaluating Marathi newspaper websites using Alexa Internet as a tool. However, the present study intends to portray interesting findings of the evaluation of Marathi newspaper websites, which remains unexplored.

METHODOLOGY

The present study has been done by using webometric methods with the help of Alxa databank, which is known as the most famous tool for evaluating websites. In this research we selected eight indexes – i.e. traffic rank, pages viewed, speed, links, bounce percentage, time on site, search percentage, Indian and foreign users. – in order to analyze Marathi newspaper websites.

The 13 leading Marathi newspapers listed in the website of the Maharashtra media academy (http://Maharashtramediaacademy.org/history-of-media/) as taken as a sample for evaluation in the present study. The internet addresses (URLs) of these newspapers were collected from the internet. Using these URLs, each newspaper web site was searched on 7th Oct, 2016 in Alexa website (www.alexa.com) and all the data were obtained by real-time examination according to prearranged evaluation indexes (Table 1). The data collection process was completed on the same day to decrease possible errors associated with frequent website updates. The downloaded data were further entered into the specially designed Microsoft Excel worksheet. Then data were analyzed and tabulated to relevant findings in accordance with the desired objectives. The list of the Newspapers with their URLs, which are coming under the purview of this study, is provided in (Table 2).

Sr. No.	Name of the paper	URL	
1	Deshonatti	http://www.deshonnati.com/	
2	Divya Marathi	http://divyamarathi.bhaskar.com/	
3	Kesari	http://www.dailykesari.com/kesarinews.aspx	
4	Lokmat	http://www.lokmat.com/	
5	Loksatta	http://www.loksatta.com/	
6	Maharashtra Times	http://maharashtratimes.indiatimes.com/	
7	Pudhari	http://www.pudhari.com/	
8	Punyanagari	http://epunyanagari.com/	
9	Saamana	http://www.saamana.com/	
10	Sakal	http://online5.esakal.com/	
11	Tarun Bharat	http://www.tarunbharat.com/	

 Table 2 : List of newspapers with URLs

RESULTS & DISCUSSION

The data regarding Marathi newspaper web sites for eight indexes (traffic rank, pages viewed, speed, links, bounce percentage, time on site, search percentage and Indian/foreign users) as obtained from Alexa Internet is presented in Table 3.

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Sr. No. Name of the Newspaper	Traff	ic Rank							U Pero	lsers centage		
	India	Global	Pages viewed	speed	Links	Bounce rate	Time on site	Search	India	Foreign	others	
1	Deshonatti	243,514	2,142,967	1		93	91.7	0:16	4.2	100	-	
2	Divya Marathi	36	524	11.13	6.071	9,310	28.1	10:18	8.8	90.5	4.5	5
3	Kesari	NA	2,116,497	1.6		109	38.9	1:56	16.7	No Avai th	Data able for is site	
4	Lokmat	1,289	15,134	4.94	1.648	534	28.4	7:47	11.2	92.6	6.7	0.7
5	Loksatta	1,131	13,823	4.5	3.98	668	36.8	6:30	7.4	90.2	6.6	3.2
6	Maharashtra Times	11	137	4.39	2.565	60.082	45.9	5:23	13.3	79.6	9.8	10.6
7	Pudhari	5,188	42.998	6	6.09	250	21.5	9:05	12.3	92.9	5.3	1.8
8	Punyanagari	31.361	164.905	9.6	4.488	88	19.9	9:23	25.6	94.8	NA	5.2
9	Saamana	11,678	103,200	3.5	2.993	227	23	4:34	12.7	90	8	2
10	Sakal	911	9,433	8.4	3.013	540	22.2	9:04	6.8	85.2	9.4	5.4
11	Tarun Bharat	14.983	139,701	2.31	3.56	201	27.7	4:35	18.8	77.3	15	7.7

Table 3: Data obtained from Alexa Internet

Traffic Rank

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With regard to the attribute traffic rank in India, the best-ranked newspapers are Maharashtra Times and Divya Marathi, with traffic ranks off 11 and 36, respectively. The newspapers like, Deshonatti, Punyangari, Tarun Bharat, shows high traffic ranks, which reflects their weak performance on this account. Out of the 11 newspapers, only 3 have traffic rank of less than 1,000, which projects their good performance in this attribute while compared to others. In the case of Global traffic rank, only two newspaper i.e., Maharashtra Times and Divya Marathi have traffic rank less than 1000, i.e., 524, 137, reaming all are shown very weak performance in this attribute (Table.3).

Page views

Concerning to this attribute, *Divya Marathi* has the highest number of average pages viewed by users per day (11.13%), followed by Punyangari (9.60) and Sakal (8.40). The lowest number of average pages viewed is 1.00% for Deshonatti (Table 3). Except the first three newspapers (Divya Marathi, Punyanagari and Skal) all others have shown bad function in this attribute.

Downloading Speed

Concerning the downloading speed, Lokmat and Maharashtra Times have the highest speed (1.648s and 2.565s, each respectively). Divya Marathi has the slowest downloading speed of 6.071 seconds followed by Pudhari 6.09 seconds and Punyanagari 4.488 seconds. The overall downloading speeds are in the range of 1.648 - 6.071s (Table 3), which clearly indicate the weak performance of the Marathi newspaper websites in this attribute.

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Links

Regarding the number of links that each newspaper web site has received, Maharashtra Times has received the highest number of links (60,082), which is considerably different from other newspapers. This newspaper has covered a various range of news like political, cultural, arts, social, economic, sports, and world news which has probably made it much more popular than others. Divya Marathi with 9,310 links occupy second place. Punyanagari with 88 links is the last in the queue (Table 3). Majority of the newspaper websites have less than thousand links shows their poor performance in this attribute.

Bounce percentage

Punyanagari has the lowest bounce percentage (19.90) followed by Kesari with (38.90) and Maharashtra Times (45.90). Deshonatti shows the high rate of bounce percentage (91.70) shows its weak performance (Table 3). The higher bounce rate in most of the newspaper websites indicates their weak performance in this attribute.

Time on site

The estimated daily time spent on site by the visitors is highest for Divya Marathi (10:18), Punyanagari occupies second place with (9:23) followed by Pudhari with 9:05 and the lowest in this category is for Deshonatti (0:16). The time spent on the rest of the sites is in the range of 1:56 -9:04 (Table 3).

Search percentage

The highest percentage of visits that came from search engines is for Punyanagari with (25.60) and the lowest is (4.20) for Deshonatti (Table 3).

Audience Geography

The highest percentage of foreign users is (15) percent for Tarun Bharat, followed by (9.8) percent for Maharashtra Times and the lowest in this category is Divya Marathi (4.5). The percentage of foreign users for the rest of the sites is in the range of 5.3 - 9.4 percent (Table 3).

Table 4. Indian and Foreign Osers				
Sr. No	Name of the newspaper	Percentage of Indian and foreign visitors		
1	Deshonatti	India (100)		
2	Divya Marathi	India (90.5), United States (2.00), United Arab (1.10) Saudi Arabia (0.90), United Kingdom (0.50), Other (5)		
3	Kesari	No data available for this site.		
4	Lokmat	India (92.6), United State (3.90), United Kingdom (2.8), Other (0.7)		
5	Loksatta	India (90.2), United State (5.6), United Kingdom (0.50), Australia (0.50), Other (3.2)		

Table 4	: Indian	and Foreign	Users
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6	Maharashtra Times	India (79.6), United State (6.50), Pakistan (1.20), United Kingdom (1.10), United Arab (1.00), Other (10.6)	
7	Pudhari	India (92.9), Australia (3.3), Other (1.8)	United State (2.00),
8	Punyanagari	India (94.8), Other (5.2)	
9	Saamana	India (90), United State (4.40 Other (2)	0) Australia (3.60)
10	Sakal	India (85.2), United State (6. Thailand (1) Saudi Arab (0.9	4), United Arab (1.1), 9) Other (5.4)
11	Tarun Bharat	India (77.3), United State (10 Australia (2), Other (7.7)	0), Turkey (3),

Table 4 shows the data on Indian and foreign users. Most of the foreign users toMarathi newspaper websites are come from Gulf countries like United Arab and Pakistan. Other foreign visitors come from countries like US and UK. It is inferred from this results that migrated Maharashtra Times are still interested to know the local news through the websites of Marathi newspapers.

CONCLUSION

The findings of this study provides an overall picture of Marathi newspaper websites status in terms of their performances on the web based on the eight indexes of Alexa internet evaluation tool. Results of show that, most of the Marathi newspaper websites do not act successfully on the web and need much attention. Similarly, some high traffic ranking newspaper showed weak performance in some of the attributes whereas some low traffic ranking newspapers performed comparatively better in some of the attributes. The downloading speed and bounce rate of most of the newspapers are not satisfactory, which needs to be given due attention as it could increase the number of visitors for the respective newspapers and their consequent global reach. Besides administrators of Marathi newspapers, the results of this study will be useful for web site managers in any field including those in charge of library web sites. The study will also help librarians and anyone interested to increase usage of a web site by analyzing the use of web site using Alexa internet.

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