Plagiarism Detection Softwares and their useful applications to Indian Researchers, Teachers, Writers & Students: Literature Review

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ABSTRACT

This paper examines the study of plagiarism detection software's available to the Indian Researchers, Teachers, Writers and Students and their useful applications to minimize the plagiarism. Plagiarism can be said as "theft of intellectual property". Plagiarism can be can be categorized as textual plagiarism and Non-textual plagiarism includes audio, video, images, photographs, maps paintings, drawings and many more. Advent of Internet and easy access information, I t is found that the modes of plagiarism have change in recent years. Many detection software's of plagiarism are available in recent years. This paper focus on importance of awareness of plagiarism detection softwares available to the Indian Researchers, Teachers, Writers and Students and also need for development of such softwares in Indian Languages.

Keywords: Plagiarism, Plagiarism detection software, Higher Education, Non-textual plagiarism

I. INTRODUCTION

Plagiarism is defined as an act of taking or using another person's intellectual property without acknowledging the originator. Encyclopedia Britannica defined plagiarism as" Plagiarism the act of taking the writings of another person and passing them off as one's own. The fraudulence is closely related to forgery and privacy-practices generally in violation of copyright laws". Plagiarism classified into five categories: a) Copy and Paste Plagiarism b) Word Switch Plagiarism c) Style Plagiarism d) Metaphor Plagiarism e) Idea Plagiarism. According to, Merriam Webster online dictionary, the plagiarism detailed as

- To Steal and pass off as one's own
- To use without crediting the source.
- To present as new and original an idea or product derived from an existing source.
- To commit literary theft.

Plagiarism become very serious problem for Educational Organizations Researchers, Teachers, Writers & Students. Plagiarism detection and Prevention or minimizing become one of the biggest challenge. In order to

curb such unlawful practices many plagiarism detection software's and tools have been introduced. Plagiarism detection can be done either manual detection method or by Electronic or computer assisted detection procedures. Mapping the extent of plagiarism published by Carroll, 2000, based on an exercise in Swales and Feak, 1994.

MAPPING THE EXTENT OF PLAGIARISM

Here are six ways to use sources. Number one is plagiarism; Number six is not. Where do you cross the line?

1. Copying a paragraph verbatim from a source without any acknowledgment.

2. Copying a paragraph and making small changes - e.g. replacing a few verbs, replacing an adjective with a synonym; acknowledgment in the bibliography.

3. Cutting and pasting a paragraph by using sentences of the original but omitting one or two and putting one or two in a different order, no quotation marks; with an in-text acknowledgment and a bibliographical acknowledgment.

4. Composing a paragraph by taking short phrases from a number of sources and putting them together using words of your own to make a coherent whole with in-text acknowledgments and a bibliographical acknowledgment.

5. Paraphrasing a paragraph by rewriting with substantial changes in language and organization; the new version will also have changes in the amount of detail used and the examples cited; citing source in bibliography.

6. Quoting a paragraph by placing it in block format with the source cited in text and in bibliography.

(Carroll, 2000, based on an exercise in Swales and Feak, 1994).

II. OBJECTIVES OF STUDY

Ever since, we started using internet and advanced communication tools, online information and literature searching for academic purposes. This resulted potential risk of misusing intellectual property theft. As plagiarism grown in many forms the development of plagiarism detection software's introduced. The study is designed understand various plagiarism detection software's based on available literature and to create awareness among Indian Researchers, Teachers, Writers and Students.

III. PLAGIARISM DETECTION OF SOFTWARE AND TOOLS

The major Plagiarism detection software's available on the Internet for the benefit of Indian Researchers, Teachers, Writers and Students, are reproduced below with website address:

1. **Anti-Plagiarism is** a product of M/s.ScanMyEssay.com, the company claims Anti-Plagiarism - software designed to effectively detect and thereby prevent plagiarism. It is a versatile tool to deal with World Wide Web copy-pasting information from the assignment of authorship.The presence of textual materials in electronic format has made plagiarism easier than ever. Copying and pasting paragraphs or even entire text can now be accomplished with a few mouse clicks. Website: http://ikc2.tup.km.ua

2. **Copyscape** is a product of M/s.Indigo Stream Technologies, the company claims Copyscape's professional solutions provide more powerful plagiarism detection than the free service. They are used by webmasters and content owners worldwide to check the originality of new content, prevent duplicate content, and track down copies of content on the web.Website: http://www.copyscape.com

3. **Paper Rater** is a product of M/s.Paper Rater, the company claims PaperRater.com is a free resource that utilizes Artificial Intelligence to help students write better. Our technology combines Natural Language Processing, Machine Learning, Information Retrieval, Computational Linguistics, and Data Mining to produce the most powerful automated proofreading tool available on the Internet today. PaperRater.com is used by schools and universities in over 46 countries to help students improve their writing and check for plagiarism.Website: http://www.paperrater.com

4. **PLAGARIASM CHECKER** is a product of M/s.duplicheker.com the company claims, Plagariasm checker can help to clean your content of plagiarism and make it original with the help of Duplichecker- completely free for all. Be it a professional, a student, or a newbie, everyone can equally benefit from it following simple steps. Copy paste, or upload your content file containing essay, thesis, website content or articles, and click 'search', and you get the analysis reports within seconds. Each sentence is dissected, and all the source websites from where the content was copied are displayed. Website: www.duplicheker.com

5. **Plagiarisma.Net** is a product of www.plagiarisma.Net, the company claims Plagiarism destroys your career life. Plagiarisma.Net is an essay checker considered as an important tool for students, teachers, scholars and professional writers. It works on Windows, Android, BlackBerry and Web. It detects copyright infringement in your essay, research paper, coursework or dissertation. It supports Google, Yahoo, Babylon, Google Scholar and Google Books. It helps avoid plagerism. It will only take a few minutes to check your document. Are you searching for free plagarism detector that is accurate enough to help you track duplicate content? Avoid plagiarism - use Plagiarisma.Net free paraphrasing software. Website: http://plagiarisma.net

6. **Plagium** is a product of M/s.Septet Systems Inc, the company claims Plagium is a service, now in beta test, of Septet Systems Inc. Septet Systems Inc. focuses on the development of innovative information search solutions for consumers, enterprises, government, academics, and healthcare. Much of our work is based on Septet's proprietary TX Miner engine, which employs advanced search technology for deep mining of documents on the public World Wide Web or within private repositories. Website: http://www.plagium.com

7. **PlagTracker is developed by two Ukrainian who studied computer science developed an algorithm for detecting plagiarism. The** company claims,PlagTracker a plagiarism checker is essential for protecting your

written work. A plagiarism checker benefits teachers, students, website owners, and anyone else interested in protecting their writing. Our detector guarantees that anything you write can be thoroughly checked by our online plagiarism software to ensure that your texts are unique. The process of checking your work for plagiarism can be broken down into these simple steps. Website: www.plagtracker.com

8. **Plagiarism Detector** is a product of M/s. Skyline Inc, the company claims that, 'Plagiarism Detector' is a plagiarism detection software to check for plagiarism in text documents. Is is fast and reliable Plagiarism checker. Website: www.plagiarism-detector.com

9. **SEESOURCES** is a product of M/s.PlagScan GmbH, the Company claims SeeSources.com takes a whole text, automatically extracts its unique signature and searches the Internet for them, effectively detecting plagiarism.Website: www.seesources.com

10. **TURNITIN** a product of M/s.Insight Venture Partners, the company claims Turnitin is the global leader in evaluating and improving student learning. The company's cloud-based service for originality checking, online grading and peer review saves instructors time and provides rich feedback to students. One of the most widely distributed educational applications in the world, Turnitin and Ephorus is used by more than 15,000 institutions in 140 countries to manage the submission, tracking and evaluation of student papers online. Turnitin also offers iThenticate, a plagiarism detection service for commercial markets, and WriteCheck, a suite of formative tools for writers. Website: www.turnitin.com

11. **VIPER** is a product of M/s.ScanMyEssay.com, the company claims Viper, the free plagiarism detection software from ScanMyEssay.com, is great for both students and lecturers. It provides quick, accurate scans for free. Website: www.scanmyessay.com

IV. EFFECTIVENESS OF PLAGIARISM DETECTION OF SOFTWARE

Plagiarism detection software and tools provides no magical answers Plagiarism. Software and tools powerful enough to minimize the plagiarism. The following table gives a comparison of the features of various detection software's available for Researchers, Teachers, Writers and Students. "Plagiarism Detection Software: How effective is it? Developed by Centre for the Study of Higher Education, Australia for students http://www.cshe.unimelb.edu.au/assessinglearning/03/plagsoftsumm1.html):

	Copycatch	Glatt Plagiarism Screening Program	Turnitin.com	EVE2	Plagiserve	WordCHECK DP	WordCHECK RA	Moss	Sim	JPlag	Google
Checks against Web?	X	X	Y	Y	Y	X	X	X	X	X	Y
Checks against its own data base?	X	X	Y	X	Y	Y	Y	Y	Y	Y	X

Cross-checks with other students� work?	**Y**	X	**Y**	X	**Y**	**Y**	**Y**	X	**Y**	**Y**	X
Purchase?	**Y**	**Y**	X	**Y**	X	**Y**	**Y**	X	X	X	X
Subscription?	X	**Y**	**Y**	X	**Y**	**Y**	**Y**	**Y**	X	**Y**	X
Free?	X	X	X	X	**Y**	X	X	**Y**	**Y**	**Y**	**Y**
Checks ordinary text?	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	X	X	**Y**	**Y**
Checks computer programming?	X	X	X	X	X	X	X	**Y**	**Y**	**Y**	X
Students sit test?	X	**Y**	X	X	X	X	X	X	X	X	X
Designed for use by students?	X	X	**Y**	X	X	X	X	X	X	X	**Y**
Designed for use by teachers?	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**
Instant response?	X	X	X	**Y**	X	**Y**	**Y**	X	**Y**	X	**Y**

V. CONCLUSION

This study will help the Indian Researchers, Teachers, Writers and Students to great extent to understand the complexity of plagiarism. In this study, it is found that the range of assistive software's of plagiarism detection available free and for Price, which are can be used to support the awareness of stakeholders. Further, this study gives an opportunity for the further study of need of the Plagiarism detection software's in Indian Languages.

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