# Plagiarism Detection Software Overview: Special Reference to DrillBit Plagiarism Software

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**Abstract:**
*This paper we focused on Plagiarism detection software's used in India. Why there is a need of Plagiarism software's and importance of the same. Plagiarism detection software has become need of the hour. Most of the information over internet is produced as duplicate by the different authors. To maintain the originality of the author and improve the quality of research, plagiarism checking software are useful. Plagiarism detection software identifies unoriginal content by comparing text against extensive databases of sources, including academic papers, websites and published works. It is widely used in education, publishing and content creation to ensure originality.*

Keywords: *Plagiarism, Plagiarism Detection Software, DrillBit, Turnitin, Urkund*

## 1. Introduction

In the digital age, plagiarism has played a major role in academic, research and professional writing. Plagiarism detection software is important for maintaining originality and integrity by identifying copied or uncredited content in documents. These tools analyze text against papers, books and online sources to detect similarities and potential plagiarism. In India universities and research institutions follows strict guidelines set by the University Grants Commission (UGC) and other academic bodies to prevent plagiarism. Popular software like Turnitin, Urkund and DrillBit help educators and researchers verify content originality before publication or submission. With advanced features like AI-based analysis, citation checking and real time detection these tools have become essential for upholding academic integrity and intellectual honesty.

According to InfoScipedia "Plagiarism detection software is Software system that takes a submitted text as input, and compares the text against a set of publicly available and privately held documents, resulting in a similarity report. The similarity report includes marking of similar or identical text, hyperlinks or other references to sources that match it, and an overall similarity report. In some cases, the similarity report can be customized to include or not quoted text, and to include or not the bibliography. (InfoScipedia, n.d.)

According to geeksforgeeks "Plagiarism is derived from the Latin word "Plagiarius" meaning "kidnapper". Plagiarism means stealing or copying another's work and representing it as own work. On Internet, everything is available for free. We can share, upload, download, view, or search any text, audio, and video. Everything is there for free. The availability of anything and everything on the internet has made our lives easier but people make misuse of this advantage of the internet by representing other's work as their own for fame, for academic benefits, for money, for personal interests, etc. " (geeksforgeeks, 2023).

## 2. Types of Plagiarism

There are several types of plagiarism. In this article, we will get to know the common ones: (geeksforgeeks, 2023)

- **Complete Plagiarism:** Complete Plagiarism is the most extreme form of plagiarism. In this plagiarism, a person completely copies someone else's work such as a research paper, article, image, etc, and represents it as their own work. This form of plagiarism is like identity theft or stealing.
- **Verbatim:** Verbatim is also known as direct plagiarism. When we read a book, we must have observed that if any statement that a famous person has made is always represented in double quotations and is highlighted so that we get to know that it is said by this person. Similarly consider a person writing an article and mentioning someone's else work or words that too the same. But this person doesn't represent it in quotation marks. Then that person is said to be exhibiting direct plagiarism. Hence copying another person's work word to word and not representing it in quotation marks is known as Verbatim or direct plagiarism.
- **Self-Plagiarism:** This kind of plagiarism is the duplication of a person's own work. It is also known as auto plagiarism. It occurs when a person copies some words of his own published work and uses the same for another work.
- **Source-Based Plagiarism:** This form of plagiarism is most observed in research work. In the research paper one needs to provide references that have contributed to their work, If a person provides wrong references that do not exist, or that are not relating to the work then it is known as source-based plagiarism.
- **Accidental Plagiarism:** This kind of plagiarism mostly occurs due to a lack of knowledge. If we don't know how to paraphrase, cite and quote a research work we leave the work as it is and it results in accidental plagiarism.
- **The Misinformed:** The writer provides inaccurate information about the sources to create difficulties to find them.
- **Idea Plagiarism:** When the innovative idea or the way to solve a problem has been copied from the author of the original source.
- **Paraphrasing:** This type of Plagiarism is a little more strategic. It involves reading a few texts, writing down a few key sentences, changing the words around, and throwing in a few quotes and citations to throw your tutor off the scent. Then you have the perfect essay, right? Wrong!

## 3. Laws against plagiarism

There are many laws against plagiarism. Some of them are mentioned below-

- In section 57 of the Indian Copyright Act 1957, authors have "the right to claim authorship of their works among other things. It grants the authors the special right to be attributed for their work. The statute recognizes the right to attribution analogous to the rights not to be plagiarized."
- In section 63 of the ICA 1957, "a convicted infringer is liable to be imprisoned between six months to three years, and to be fined between fifty thousand and two lakh rupees".
- University Grants Commission or UGC has provided a certain set of guidelines that need to be followed by universities to prevent plagiarism in academic activities.

## 4. List of major Plagiarism Detection software
**Commercial Plagiarism Detection Software**

- Urkund
- Turnitin
- iThenticate
- Grammarly
- DrillBit

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**5. Open Access Plagiarism Detection Software**
- Viper Plagiarism Checker
- Plagtracker
- Copyleakes
- Plagiarism Detention

**6. Commercial Plagiarism Detection Software**

**1. Urkund:** URKUND is a completely automated system against plagiarism (Anti-plagiarism software) and is being successfully used at universities and colleges all around the world. Ouriginal is the new name of Urkund.

URKUND's system checks all documents against three central source areas:
 a. The Internet
 b. Published material such as Journals, Books etc.
 c. Previously submitted student material (e.g. memoranda, case studies and examination work)
 d. URKUND Plagiarism Detection Software has been selected by INFLIBNET Centre under the aegis of Ministry of HRD to enhance quality and prevent plagiarism in research/academic publications.

**2. Turnitin:** Turnitin is one of the most widely used plagiarism detection software in academia, helping institutions, educators and researchers maintain academic integrity. It is started in 1998 through technology that promotes honesty, consistency and fairness. It's a paid software with institutional access and many Indian universities provide it to students and faculty for research purposes.

Key features of Turnitin:
- Plagiarism detection
- Similarity Report
- Grading and Feedback Tools
- AI-Based Writing Detection
- Citation Assistance
- Integration with LMS

**3. iThenticate:** iThenticate is developed by Turnitin. It provided by iParadigms that have introduced Turnitin in 1996 to become the online plagiarism detection. iThenticate is the leading provider of professional plagiarism detection and prevention technology used world-wide by scholarly. Publishers and research Institutions that ensures the originality of written work prior to publications. iThenticate helps editors, writers, professionals, scholars, prevent misconduct by comparing manuscript against its database of our 60 billion web pages, 155 million content items including 49 million works from 800 scholarly publisher participates of Cross Check, a service presented by CrossRef and powered by iThenticate Software. (Soni, 2018)

**4. Grammarly:** Grammarly is a popular AI-powered writing assistant that includes a Plagiarism detection features as a part of its Premium and Business plans. Its designed primarily for general writers, students and professionals who need a quick and reliable way to check content orginality. Grammarly is best for Bloggers, content writers, students and professionals.

**5. DrillBit:** DrillBit Soft Tech India Pvt Ltd is established in Karnataka in the year 2016 with an inspiration of Make in India concept and developed by a startup company. The software has been developed indigenously and providing complete solution to plagiarism with many unique features that checks for any duplicate or copied content in comparison to the larger data available globally. (SoftTech, n.d.)

*5.1 Unique features of DrillBit*
- Effective repository system (upload previous year papers into repository to avoid duplication within institution) DrillBit will detect duplication of the submissions with immediate effect from the repository.
- Detection of hidden characters or symbols: DrillBit provides solution to detect hidden characters or symbols in the paper.

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- Detection of small fonts in between the words which shall be not visible to naked eyes without zoom exceeding 800%. No tricks can be applied on DrillBit plagiarism software.
- Detection of files illicitly modified using alphanumeric characters. Ex. Replacing number 0 with letter O and such others.
- Grammer Software/writing assistant integrated solution: DrillBit software provides grammar software on his platform to improve users/authors writing skills and detect any intentional grammar or spelling mistake in the paper.

### 5.2 DrillBit Products
- Coverage of large database for plagiarism check: Internet archives, Webpages, Open and subscribed publisher's contents, Aggregators sources, Scholarly contents, Newspapers, Magazines, ebooks, student's databases and University repository.
- Pages limits in one document 400 pages scan capabilities up to 2000 pages.
- File size is allowed 60 MB can be extended up to 100 MB
- Unlimited instructor and student user accounts
- Multiple file format supports
- Minimum test time
- Minimum 20 words in each file
- Supports unlimited documents submission in each license

### 5.3 Features of DrillBit Software
- Report generation in pdf format
- Report download/printable support
- Option to Exclude Sourc-es, References, Bibliogra-phy, and Quotes
- Support all latest browsers
- Peer Review/ Instructor Feedback system
- Check against researcher's older work
- Choice of Email notification
- Generate report in less than 3 steps
- Simultaneous access to multiple users 24/7
- Website integration capability
- Google authenticated login
- Centralize admin panel monitoring
- Assignment report generation
- Periodical report generation
- Automated grading system
- Integrated with Institutional Repository
- 200 language support
- Provides high security and safety
- Detect Paraphrasing, Hidden Characters, Replaced Characters and Manipulated texts
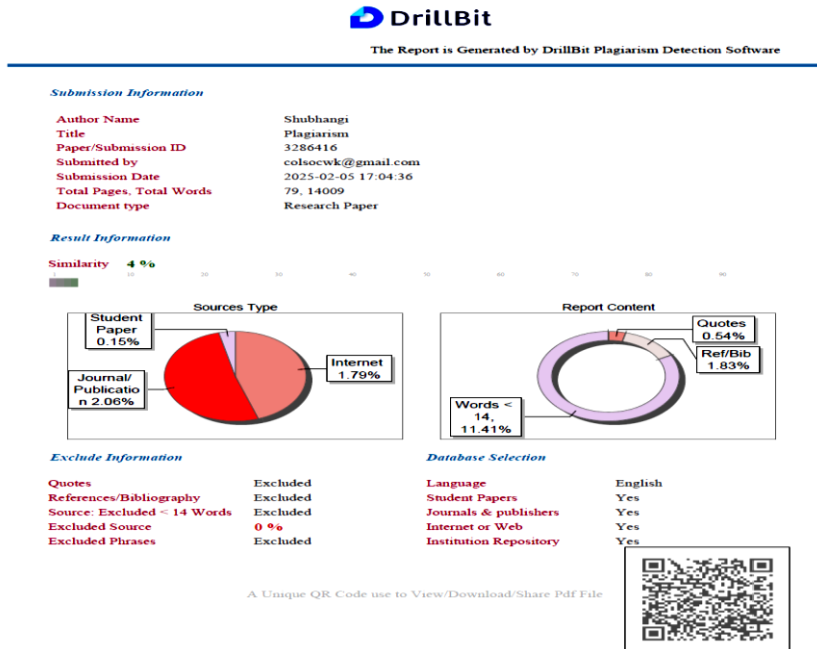
### 5.4 Content Coverage
Drillbit covers the world's most comprehensive collection of premium & open access content from academic publishers.
- 91+ Billion web pages
- 12k Publishers
- 80k Journals
- 13k Thesis and dissertation repositories

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## 5.5 DrillBit Integrates with Learning Management systems

- Google Classroom
- Moodle
- Quicklrn

- Blackboard Learn
- Brightspace
- Canvas

### Fig. 1: Screenshot of Report

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## 6. Open Access Plagiarism Detection Software

- **Viper Plagiarism Checker:** Viper is a web-based piece of software. Viper is easy to use interface and highly detailed scanning process. It only takes three simple steps- Check, Scan and Compare, with 10 billion sources (including books, journal articles, websites and much more) to review your document and produce a full Plagiarism report. It launches in 2007, with a sample 'Drug and Drop'. Screening interface, easy to understand scan result and a free option available. (Soni, 2018)
- **Plagtracker:** Fast free plagiarism detection tool that searches both websites and academic databases by copying pasting texts or files uploading. It is online plagiarism detection software to ensure that the texts are unique.
- **Copyleaks:** Copyleaks is basically cloud-based authentication platform enables you to track how e-learning content is being used all around the internet. After creation of the account after that it allowed to check 2500 words per month. After that users must pay charges.
- **Plagiarism Detention:** PlagiarismDetection.org: an online service provides high level of accuracy result in plagiarism detection. Mainly designed to help the teachers and student to maintain and to ensure or prevent and detect plagiarism against their academic documents.

## 7. How to avoid Plagiarism

Many people know that Plagiarism is unethical, unfair and crooked activity and this is usually enough to prevent us from doing it. Many technics are available to avoid Plagiarism but for those who do anything, the outcomes can be unpleasant, many professionals lost his professional reputation when they Plagiarize.

There are discussed some simple steps while writing research papers to ensure that your document will be free of Plagiarism-

- **Paraphrase:** When you find any information that is correct for your research article then first read it and add it into your own language. Make sure that you don't copy literally more than two words in a raw from the found text. If you use more than two words in a row then you will use quotation marks.
- **Cite:** Citing is a most dynamic mode to avoid Plagiarism. Going with the document formatting instructions like APA, MLA Chicago etc. used by your educational institution. This generally require the addition of the authors and the date of publication or corrective information. Not citing properly can make Plagiarism.
- **Quoting:** Use the reference correctly the way it appears. No one wants to be misquoted. Most educational communities of higher learning frown on "Block quotes" or references of 40 words or more. A student should be able to dramatically paraphrase most material. The reference's necessary done correctly to avoid Plagiarism allegations.
- **Citing Quotes:** This practice generally denotes addition of page number, paragraph number in citation of web content.
- **Citing your own material (Self Plagiarism):** If your research article represent you own words/ideas, which related from your ongoing project, an earlier one or anywhere else you must cite yourself. Use the content as you like it someone else wrote it. It may sound odd but using information you have used before is called self-plagiarism and it is not delightful.
- **Referencing:** it needs to use reference page of works at the end at your research article and this page in some as the document formatting instructions used by your research institutions. The reference is including the author details, date of publication, title and source. Follow the direction and get the right reference. (Hada, 2023)

## 8. Conclusion

Plagiarism is a serious academic and ethical offense that can have dire consequences for students and professionals. Plagiarism software has become an essential tool for detecting and preventing plagiarism in India. The software can help educational institutions, businesses and individuals ensure the

originality of their work. The Indian government has taken several initiatives to promote the use of plagiarism software in the country. The University Grants Commission (UGC) has made it mandatory for all universities to use plagiarism detection software to check theses and dissertations. Plagiarism Software is not a perfect solution. It is essential to use the software in conjunction with other methods of plagiarism detection such as manual checking and citation analysis. However, Plagiarism Software is a valuable tool for promoting academic integrity and preventing plagiarism in India.

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