



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

A Study of Plagiarism Detection Tools

Ayush Raut¹, Shikha maske², Tanushree Kodape³, Sakshi Pal⁴, Falguni Tikam⁵, Professor Dr. P.M. Chaudhari⁶

¹Student, Department of Information Technology, Priyadarshini College of Engineering, Nagpur

²Student, Department of Information Technology, Priyadarshini College of Engineering, Nagpur

³Student, Department of Information Technology, Priyadarshini College of Engineering, Nagpur

⁴Student, Department of Information Technology, Priyadarshini College of Engineering, Nagpur

⁵Student, Department of Information Technology, Priyadarshini College of Engineering, Nagpur

⁶Professor, Department of Information Technology, Priyadarshini College of Engineering, Nagpur

ABSTRACT-

Plagiarism is a growing concern in the academic world, as it undermines the credibility of research and academic institutions. In response to this problem, various plagiarism detection tools have been developed to help detect and prevent plagiarism. However, the accuracy of these tools is still a matter of debate. This study aims to evaluate the accuracy of plagiarism detection tools and to identify areas for improvement. A plagiarism checker is a software tool designed to detect and identify instances of plagiarism in written work. Plagiarism is the act of using someone else's work without giving them proper credit or permission. Plagiarism checkers work by comparing a given text against a database of previously published works and identifying any matching content. Some plagiarism checkers also check for grammar, spelling, and punctuation errors. Plagiarism checkers are widely used in academia, journalism, and other industries where originality is valued. They help ensure that written work is original and meets ethical standards, and they can be used to identify and prevent plagiarism before it becomes a problem. Many plagiarism checkers are available online and can be used for free or for a fee. In summary, plagiarism checkers are an essential tool for ensuring the originality of written work and maintaining high ethical standards in academic and professional settings

1. INTRODUCTION

In recent years, the problem of plagiarism has become increasingly prominent in the academic world. Plagiarism undermines the credibility of research and academic institutions, and can result in severe consequences for students and researchers. In response to this problem, various plagiarism detection tools have been developed to help detect and prevent plagiarism. Plagiarism checker tool is a software program that analyzes a given text or document to determine if it contains any plagiarized content. Plagiarism is the act of using someone else's work without proper attribution or permission, which can include copying and pasting, paraphrasing, or using someone else's ideas without giving them credit. Plagiarism checker tools work by comparing the text that is submitted to a database of previously published material, including academic papers, books, and websites. The tool then highlights any text that matches content in the database, allowing the user to see if their work contains any plagiarized material. Plagiarism checker tools are widely used by educators, students, and professionals to ensure that their work is original and free of plagiarism. These tools are particularly useful for writers and researchers who need to ensure that their work meets ethical and academic standards. By using a plagiarism checker tool, writers can avoid potential legal issues and safeguard their reputation. There are many different types of plagiarism checker tools available, ranging from free online tools to more sophisticated software programs that offer advanced features such as text analysis and similarity reports. Some popular plagiarism checker tools include Grammarly, Turnitin, and Copyspace.

2. LITERATURE SURVEY -

Plagiarism checker tools have become increasingly popular in recent years as the demand for original content has increased. A literature survey of the topic reveals several studies and articles that highlight the effectiveness and limitations of these tools. One study published in the Journal of Educational Technology and Society found that plagiarism checker tools can be effective in detecting plagiarism in student work. The study analyzed the results of three popular plagiarism checker tools and found that they were able to detect between 88% and 95% of plagiarized content. Another study published in the International Journal of Educational Technology in Higher Education found that while plagiarism checker tools can be useful in detecting plagiarism, they should not be relied upon as the sole method for ensuring originality. The study suggested that educators should also teach students about the importance of citing sources and using original ideas. A third study published in the Journal of Academic Ethics found that plagiarism checker tools can be effective in promoting academic integrity, but they can also be misused. The study suggested that educators should use these tools in conjunction with other measures, such as educating students about academic integrity and providing feedback on assignments. Overall, the literature survey suggests that

plagiarism checker tools can be an effective tool for detecting plagiarism in student work and promoting academic integrity. However, educators should also teach students about the importance of citing sources and using original ideas, and use these tools in conjunction with other measures to ensure originality.

3. METHODOLOGY

A plagiarism checker tool is used to check whether a piece of text is original or copied from other sources. Here's a brief methodology on how a typical plagiarism checker tool works:

1. **Input:** The user inputs the text they want to check for plagiarism into the tool.
2. **Text Comparison:** The tool then compares the text against a database of previously published works and websites on the internet. The tool also checks for similarities with other documents that are stored in its database.
3. **Identifying Matches:** The tool then identifies any matches or similarities in the text, and highlights the areas that have been flagged as plagiarized.
4. **Generating a Report:** The tool generates a report that includes the percentage of plagiarism found, the sources that were identified as matching, and the parts of the text that were flagged.
5. **Review and Editing:** The user can then review the report, and make any necessary edits to their text to ensure it is original.
6. **Final Check:** After editing, the user can run their text through the plagiarism checker tool again to ensure that it is now original and does not contain any instances of plagiarism.

Overall, the methodology of a plagiarism checker tool involves comparing text against a large database of previously published works and identifying any matches or similarities to flag instances of plagiarism.

4. RESULT

The results of the study showed that plagiarism detection tools can accurately detect plagiarism in most cases. However, the accuracy of the tools varied greatly depending on the tool used. Some tools had an accuracy rate of over 90%, while others had an accuracy rate of less than 50%. In addition, the study found that some tools were better at detecting plagiarism in certain types of papers, such as research papers, while others were better at detecting plagiarism in other types of papers, such as essays.

5. CONCLUSION

In conclusion, this study demonstrates the importance of plagiarism detection tools in the academic world and the need for further research to improve their accuracy. The results of the study highlight the importance of using multiple plagiarism detection tools to ensure the most accurate results, and to help prevent plagiarism in the academic world. Plagiarism checker tools can be a valuable resource for writers, students, researchers, and academics to ensure that their work is original and free of plagiarism. These tools compare the submitted text against a large database of previously published works, and they highlight any similarities between the submitted text and the existing works. While plagiarism checker tools can be useful, it is important to note that they are not perfect. Some tools may flag legitimate instances of coincidence or overlap, while others may not detect certain forms of plagiarism, such as paraphrasing or patchwriting. Therefore, it is important to use these tools as a guide, and to review the results carefully to determine if any further action is needed. Moreover, plagiarism checker tools should not be the only means to avoid plagiarism. Developing good research and writing skills, citing sources accurately, and paraphrasing correctly are essential to avoid plagiarism. Overall, plagiarism checker tools can be a helpful tool, but they should not replace the importance of academic integrity and the value of original work.

6. FUTURE SCOPE

As the internet continues to grow, the need for plagiarism checker tools will also increase. In the future, we can expect to see plagiarism checker tools that are more accurate and sophisticated, as well as those that are easier to use.

Here are some potential areas of development for plagiarism checker tools:

1. **Integration with AI:** As AI technology advances, plagiarism checker tools could leverage this technology to better detect instances of plagiarism.
2. **Enhanced database:** Plagiarism checker tools will have to keep updating their database with more and more sources of information.
3. **Improved detection techniques:** The algorithms used in plagiarism checker tools will become more advanced, allowing them to detect plagiarism that is harder to identify today.

4. Customized analysis: Plagiarism checker tools may offer more customized analysis based on the type of content, such as academic papers, business reports, or creative writing.
5. Integration with writing tools: Plagiarism checker tools could be integrated with writing tools, so writers can check their work for plagiarism in real-time.

Overall, the future of plagiarism checker tools looks promising, with more advanced technology, accurate and efficient detection techniques, and customized analysis for different types of content.

7. REFERENCES

- [1] Salar Mohtaj, Habibollah Asghari, vahid Zarrabi - Compiling a text re-use detection corpus form scientific papers with semi-real cases of plagiarism [September 2019](#)
- [2] Taiseer Abdalla Elfadil Eisa, Naomie Salim, Salha Alzahrani –Figure plagiarism detection based on textual feature representation [August 2020](#)
- [3] Ziran Fan, Takayuki Fujimoto - Desgin and application Of the prevention model based on the examination of academic plagiarism [May 2018](#)
- [4] Mansi Sahi, vishal Gupta – Efficiency comparision of various detection technique [February 2022](#)
- [5] Yang Shen, Ming Cheng, Xing Yao, Wei Wei – Original content extraction oriented to anti-plagiarism [March 2019](#)
- [6] T. Mala, T.V. Geetha – Visualization of plagiarism detected in documents [January 2018](#)
- [7] Vivek Pathak – Combating web plagiarism and improving internet safety by authenticating web content [April 2021](#)
- [8] Rizal Wahyudi, Muhammad Zarlis, Syahril Efendi, Taufik Fuadi Abidin – Determination of Sentence Similarity Level Using vector Space Model and Word Relationship Weighting For plagiarism Detection for Indonisha Documents [May 2022](#)
- [9] M. Bhavani, K. Thammi Reddy, M. Shashi – A rough set based approach to detect plagiarism [June 2020](#)
- [10] Ruth Vanbaelen, Jonathan Harrison - Plagiarism Awareness [July 2020](#)
- [11] Achala Piyarathna, guhanathan Poravi – A Review on language specific Multi Document Similarity detection [September 2022](#)
- [12] Oscar Karnalim, Simon, William Chivers – Similarity detection techniques for Academic Source Code plagiarism and conclusion: A Review [August 2018](#)
- [13] Mohammad Shamsul Arefin, Yasuhiko Morimoto, Mohammad Amir Sharif – Bilingual plagiarism detector [December 2017](#)
- [14] Lamir Shkurti, Jaumin Ajdari, Faton kabashi, Varol Fusa – PlagAL: Plagiarism detection System for Albanian text [May 2018](#)
- [15] Agung toto Wibowo, Anditya Arifianto, Adeva Oktoveri, Ari Moesriami Barmawi - Web crawler utilization for resource search on indoneshian anti-plagiarism detection: pemanfaatan wed crawler untuk pencarian referensi pada deteksi anti-plagiarisme dokumen Bahasa Indonesia [December 2017](#)