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Turnitin AI: beware of its false positive in using for similarity and AI source checking for an article

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Abstract

The emerging use of computational AI tool leads to convenience and advantage. In academic, the use can bee in several ways. Turnitin is an AI tool for similarity checking and tracing for the AI generated text. This tool is widely used AI application in academic and it is usually for checking of similarity of student's work or submitted article to the journal. The result from Turnitin check is usually referred information for accusation and management of unethical academic problem. However, as an AI tool, it can have false positive and hallucination. If user does not recognize or has no critical appraisal on the result, there might be an unfair unwanted complication. For example, it might lead to unfair decision on a submitted article or student's work. In the worst case, it can lead to an unfair and unethical management on an innocent author due to the accused plagiarism based on false positive result given by Turnitin.

Keywords: AI, Turnitin, false, positive, similarity, source, checking, article.

Introduction

The growing application of computational AI tools brings benefits and convenience. Academics can employ it in a variety of ways. Turnitin is an AI-generated text similarity checking and tracing tool. This commonly used AI tool in academia is used to compare student work or articles that have been submitted to journals for similarity [1]. The results of a Turnitin check typically lead to information that can be used to regulate and file charges of unethical academic behavior. As an AI tool, it is susceptible to false positives and hallucinations, though [2 - 3]. If the user is unaware of the outcome or does not critically evaluate it, an unjust and unwelcome difficulty may arise. It could result in an unjust decision on an article that a student submits, for instance.Here, a case study is demonstrated and this case can urge our attention to have a critical appraisal when the interpretation of the results given by Turnitin check is done.

Case study

A journal editor notifies to a submitting author of an article that there is high similarity score, up to 50 %, and high AI-generated content in the submitted article and point out that this is plagiarism problem and reject the article. The Turnitin checking result is used as supporting data for accusation (Figure 1). The submitting author replies to the journal and the false positive results from Turnitin AI checking is highlighted.

A. Similarity index

The similarity index should highlight common separated words rather than phases and counts, which is a concern that could lead to false positive similaritycheck Also, it indicates the source of the plagiarism as "student paper" "Submitted to Institute of International Studies," so what is it? that is the student that was plagiarized in this computational AI plagiarism checking report? How can we get to it (there is no specific website, journal name, book name, or thesis database for this quote)? or is it merely a "submitted work"? If it is a submitted work that has not been published, how can the AI plagiarism/similarity detection program identify it as similar? There is no institute titled "Institute of International Study".

Also, the author of the article presents the results derived from a different similarity detection tool (Figure 2) and it can show that there is no plagiarism. This might highlight the fact that Turnitin might generate a hallucinated result and false positive can lead to the problem in unfair decision making of the editor of the journal.

B. AI generated content

For AI application, the author of the article claims that he uses a language modification computational tool to improve language, therefore this is conceivable because there are AI-derived words and sentences. There is no need for generative language models. And the final work is devoid of plagiarism (Figure 2). It is critical to discern between AI use and plagiarism. There are various types of AI that can be used in academic work, including generative models, language edition models, and similarity check models. Any model can be used, as long as it is done ethically. Using a generative model, such as a chatbot, may be a major worry if the author simply copies and pastes the text created by the model. This does, in fact, indicate an explanation of the results of Turnitin's AI-generated content checks.

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B. AI generated text check Figure 1: Turnitin checking results

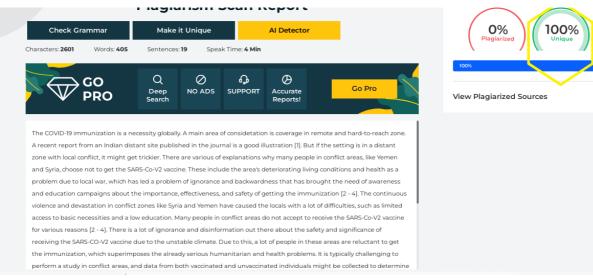


Figure 2: The similarity check by other computational tool

Discussion

The increasing use of computational AI techniques is advantageous and practical. It can be used in many different ways by academics. Turnitin is a text similarity checking and tracing program created by AI. This widely used AI tool in academia compares student work or submitted articles to journals to see if they are comparable [1]. Typically, the findings of a Turnitin check provide information that can be utilized to control and report instances of unethical academic behavior. However, it is prone to false positives and hallucinations as an AI tool [2–3]. An unfair and unwanted problem could occur if the user is ignorant of the result or does not assess it critically.

Turnitin is an AI-based tool, so it may experience accuracy and reliability issues similar to those of other AI applications. When using AI source checking or comparable checks, the results may be hallucinatory, and if a user with little experience accepts Turnitin results without question, there may be issues. These days, a lot of journals employ Turnitin as a tool, which may lead to false positive results from Turnitin, which can lead to accusations of plagiarism and harsh treatment of innocent authors of submitted work. This reality needs to be acknowledged, and like with other AI tools, attention and critical evaluation must be used when interpreting the data that Turnitin provides.

Conclusion

Asan AI based tool, Turnitin can have similar problem on reliability and accuracy similar to other AI tools. Using in similar check or AI source checking might give hallucinated result and if the low experience user believes the result from Turnitin without critical appraisal it can cause problem. Many journals now use Turnitin as tool and might be the cause of accusation of plagiarism and unfair management to innocent authors of a submitted article if there is a false positive result caused by Turnitin. This fact must be recognized and it has to be careful and have critical appraisal on interpretation of results provided by Turnitin, similar to other AI tool.

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