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ANALYSIS OF AI HUMANIZER TOOLS

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ABSTRACT

AI humanizer tools can transform generated content into more human-like text, allowing it to evade detection by AI detection tools. This poses significant risks for educational processes. Therefore, it is crucial to examine AI humanizer tools and develop recommendations based on these evaluations. The purpose of this research is to analyze AI detection tools based on specific criteria. The study was conducted during the spring semester of the 2023-2024 academic year and included 15 prominent AI humanizer tools identified through search engines. This research is qualitative in nature, and the data were analyzed using document analysis techniques. It was found that AI humanizer tools are generally paid services, with about one-third offering free options. Subscription fees range from \$6 to \$24 per month, varying based on the services provided. Some tools offer limited free usage, with charges for extended use. Most AI humanizer tools do not require registration, though a third mandate it, allowing for flexibility in user access. These tools primarily support content input via copy-paste, with a few also allowing file uploads. Additionally, AI humanizer tools have input limits based on words or characters, ranging from 100 to 2000 words or 1000 to 15000 characters, allowing users to choose tools based on their specific input length needs.

Keywords: AI, AI humanizer, education

INTRODUCTION

Artificial intelligence (AI) plays a significant role in many sectors today, including education. Like in every field, AI offers substantial advantages for both students and teachers in education. However, despite the many benefits of using AI in education, it also brings certain risks. Foremost among these are ethical issues such as cheating and plagiarism. Students can easily use AI tools to complete their assignments or exams. This poses a serious threat to academic integrity and the quality of education. Furthermore, this situation prevents students from developing their own knowledge and skills, making it difficult for the educational process to achieve its goals.

Although AI-generated content can be produced, there are tools available that can detect whether the content has been generated by AI. These tools help determine whether assignments or exams were completed with the help of AI. However, alongside these AI detection tools, there are also AI humanizing tools designed to evade detection by making AI-generated content appear more human. These tools transform AI-generated content into a more human-like format, enabling it to bypass AI detection tools. This presents significant dangers for educational processes.

There are significant risks associated with the use of AI in student products. Specific concerns in education include issues related to privacy and autonomy, AI biases, accuracy and functionality, the creation of deepfakes, FATE (Fairness, Accountability, Transparency, and Ethics) risks, and changes to the teacher's role (Karan, 2024). To address these risks, it is crucial to redefine teachers' duties, educate students on the responsible use of AI, and regulate the deployment of AI in educational settings (Bu, 2022). Furthermore, the humanization of AI-generated texts introduces a new dimension to the risks associated with AI. This added layer of complexity underscores the importance of thoroughly examining AI humanizer tools and developing effective strategies to mitigate these emerging risks. Therefore, examining AI humanizing tools and making recommendations based on these examinations is of great importance.

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METHOD

In this study examining AI humanizer tools, the qualitative research method was preferred. Qualitative research employs data collection methods such as observation and interviews. This research method allows for the realistic and holistic interpretation of attitudes and events within their natural environments (Tavşancıl and Aslan, 2001; Yıldırım and Şimşek, 2006). Additionally, the data were analyzed using the document analysis technique. Document analysis is a versatile technique that can be applied to a wide range of content, including legislation, directives, laws, institutional recommendations, correspondence, policy programs, blogs, and social and political websites (Gibton, 2016)

In the research, 15 AI humanizer tools that appeared prominently in the "AI humanizer" search on Google were included. Google was chosen because it is the most widely used search engine in the world. To include the most visited tools, the ones listed at the top of the search results were selected for evaluation. The tool available at <https://humanizeai.io/> was initially among the top 15 but was excluded from the evaluation due to the site being inaccessible, and another tool from the list was included instead.

Table 1. AI Humanizer Tools Included in the Research

No	AI Humanizer Tools	Websites
13.	AI Undetect	https://www.aiundetected.com/
14.	AIHumanize	https://aihumanize.com/
15.	AISEO	https://aiseo.ai/AI-tools/humanize-ai-text.html
16.	AI Humanizer	https://www.aihumanizer.org/
17.	Humanize AI Text	https://www.humanizeaitext.org/
18.	Phrasly.AI	https://phrasly.ai/
19.	Writesonic	https://writesonic.com/free-tools/text-humanizer
20.	AI Humanizer	https://aihumanizer.ai/
21.	Ghost ai	https://www.the-ghost-ai.com/
22.	SURFER	https://surferseo.com/ai-content-detector/
23.	RewriterPro.ai	https://rewriterpro.ai/humanize-ai-text
24.	WriteHuman	https://writehuman.ai/
25.	Humanize AI	https://www.humanizeai.pro/
26.	UNDETECTABLE AI	https://undetectedable.ai/
27.	Stealthwriter	https://stealthwriter.ai/

When analyzing the above table, it is observed that the AI humanizer tools included in the study generally operate on main domains. This indicates a specific focus on humanizing AI-generated texts. Additionally, websites such as Writesonic, AISEO, and SURFER have dedicated pages for AI humanizing, suggesting a specialized effort in this area. These sites run their tools through these dedicated pages. It is also noted that there are no tools operating through subdomains.

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FINDINGS

AI Humanizer Tools and Their Prices

As part of the research, the initial examination focused on whether the use of AI humanizer tools requires a fee. The findings from this examination are presented in the table below.

Table 2. AI Humanizer Tools and Their Prices

No	AI Humanizer Tools	Price
13.	AI Undetect	(500 words free) \$6 Monthly
14.	AIHumanize	(400 words free) \$8.99 Monthly
15.	AISEO	(125 words free) \$24 Monthly
16.	AI Humanizer	Free
17.	Humanize AI Text	Free
18.	Phrasly.AI	(300 words free) \$10.99 Monthly
19.	Writesonic	Free
20.	AI Humanizer	(125 words free) \$9.99 Monthly
21.	Ghost ai	(500 words free) \$5 Monthly
22.	SURFER	(500 words free) \$19 Monthly
23.	RewriterPro.ai	Free
24.	WriteHuman	(3 Requests free) \$9 Monthly
25.	Humanize AI	Free
26.	UNDETECTABLE AI	(250 words free) \$14.99 Monthly
27.	Stealthwriter	No \$20 Monthly

When examining the table above, it is observed that AI humanizer tools are generally paid services. However, about one-third of these tools offer their services for free. The minimum subscription fees range from \$6 to \$24 per month, and the services provided for these fees can vary. Some tools offer a small amount of usage for free and charge for additional use.

AI Humanizer Tools and Registration Requirement

As part of the research, it was also examined whether there is a registration requirement to use AI humanizer tools. The findings from this examination are presented in the table below.

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Table 3. AI Humanizer Tools and Registration Requirement

No	AI Humanizer Tools	Registration Requirement
13.	AI Undetect	Yes
14.	AIHumanize	Yes
15.	AISEO	No
16.	AI Humanizer	No
17.	Humanize AI Text	No
18.	Phrasly.AI	Yes
19.	Writesonic	No
20.	AI Humanizer	Yes
21.	Ghost ai	No
22.	SURFER	No
23.	RewriterPro.ai	No
24.	WriteHuman	No
25.	Humanize AI	No
26.	UNDETECTABLE AI	No
27.	Stealthwriter	Yes

As seen in the table above, there is generally no need to register in order to use AI humanizer tools. However, about one-third of these tools require registration to access their services. This means that some AI humanizer tools can be used without the need to create an account.

AI Humanizer Tools and Content Input Feature

In the next stage of the research, the methods allowed for data input by AI humanizer tools were examined. The findings from this examination are presented in the table below.

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Table 4. AI Humanizer Tools and Content Input Feature

No	AI Humanizer Tools	Content Input Feature
13.	AI Undetect	Pasting from clipboard
14.	AIHumanize	Pasting from clipboard, File uploading
15.	AISEO	Pasting from clipboard, File uploading
16.	AI Humanizer	Pasting from clipboard
17.	Humanize AI Text	Pasting from clipboard
18.	Phrasly.AI	Pasting from clipboard
19.	Writesonic	Pasting from clipboard
20.	AI Humanizer	Pasting from clipboard
21.	Ghost ai	Pasting from clipboard
22.	SURFER	Pasting from clipboard
23.	RewriterPro.ai	Pasting from clipboard, File uploading
24.	WriteHuman	Pasting from clipboard
25.	Humanize AI	Pasting from clipboard
26.	UNDETECTABLE AI	Pasting from clipboard
27.	Stealthwriter	Pasting from clipboard

When examining the table above, it is observed that AI humanizer tools generally allow content input by copying and pasting from the computer clipboard. Additionally, a small number of AI humanizer tools also allow file uploads to humanize content. This indicates that AI humanizer tools primarily function through the copy-paste method.

AI Humanizer Tools and Permitted Content Length

Lastly, the research examined the length of data permitted for input by AI humanizer tools. The findings from this examination are presented in the table below.

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Table 5. AI Humanizer Tools and Permitted Content Length

No	AI Humanizer Tools	Permitted Content Length
13.	AI Undetect	2000 Words
14.	AIHumanize	Unknown
15.	AISEO	125 Words
16.	AI Humanizer	1000 Characters
17.	Humanize AI Text	2500 Characters
18.	Phrasly.AI	800 Words
19.	Writesonic	4000 Characters
20.	AI Humanizer	125 Words
21.	Ghost ai	No limit
22.	SURFER	500 Words
23.	RewriterPro.ai	100 Words
24.	WriteHuman	200 Words
25.	Humanize AI	5000 Characters
26.	UNDETECTABLE AI	15000 Characters
27.	Stealthwriter	300 Words

When examining the table above, it is evident that AI humanizer tools have data entry limits based on either words or characters. For word limits, these tools allow input ranging from 100 to 2000 words. In terms of character limits, the allowed input ranges from 1000 to 15000 characters. This indicates that AI humanizer tools accommodate varying lengths of data input, enabling users to select tools that best meet their specific requirements.

DISCUSSION AND RESULT

In conclusion, the analysis reveals several key insights about AI humanizer tools. Firstly, it is evident that these tools are generally paid services, with approximately one-third offering free versions. The subscription fees for these tools range from \$6 to \$24 per month, depending on the level of service provided. Some tools offer a limited amount of usage for free, with additional usage requiring payment. This pricing structure indicates that while there is a cost associated with using most AI humanizer tools, there are also affordable options available for users with varying needs and budgets. Furthermore, most AI humanizer tools do not require users to register in order to access their services. This lack of mandatory registration makes it easier for users to quickly start using the tools without the need of creating an account. However, about a third of the tools do require registration, which suggests that there are options available for users who prefer not to sign up.

The primary method of input for AI humanizer tools is through copy-pasting text from the computer clipboard. This method is straightforward and convenient for users who need to quickly humanize AI-generated text. Additionally, a small number of AI humanizer tools also support file uploads, allowing users to humanize content directly from files. This added functionality, though less common, provides

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flexibility for users who prefer to work with files rather than copy-pasting text. Moreover, AI humanizer tools impose input limits based on either words or characters. The analysis shows that these limits range from 100 to 2000 words or from 1000 to 15000 characters. This variability in input limits means that users can select tools that best meet their specific needs in terms of input length. Whether users need to humanize short snippets of text or longer passages, there are AI humanizer tools available that can accommodate different requirements.

Lastly, AI humanizer tools offer a range of functionalities and pricing options, making them accessible to a broad audience. Users can choose from tools that do not require registration, support various input methods, and accommodate different input lengths. This flexibility ensures that there is likely an AI humanizer tool suitable for each user's unique needs and preferences.

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