Analysis of DeepL Application as an Alternative Media for Translating Academic Assignments

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Abstract

This study aims to analyze the use of the DeepL as an alternative media for translating academic assignments of English language students. This study uses a qualitative-descriptive method, obtained through observations, interviews, and documentation. The objects of this research were 6 English language students as active users of the DeepL application. The study results indicate that the DeepL application can significantly help students translate academic assignments faster, more accurately, and efficiently, although there are limitations in translating certain terms. In addition, the use of the DeepL application also affects students' understanding and abilities in the English context. This study concludes that DeepL is an effective tool to support and assist in translating students' academic assignments. Still, its use must be supported by a competent linguistic understanding to avoid translation errors.

Keywords: DeepL; Alternative Media; Translation Tools; Academic Assignments

INTRODUCTION

Technology is currently developing very rapidly so it has a significant impact. Technology has become an inseparable part of everyday life and the education system in the fifth industrial revolution and the contemporary globalization era (Bunga and Katemba 2024). The development of technology in education means improving the quality and service of the community by facilitating access to education (Gufroni, Yuliana, and Munawwir 2022). Educational technology includes various forms, from hardware such as laptops, projectors, and smartphones to software such as learning applications, simulations, and e-learning platforms (Artiniasih, Made, and Wedayanthi 2024). Technology is currently widely used by various groups, including students, they often use various websites on the internet every day (Dahlan et al. 2024) to meet their needs. This technology provides chances for students learn more efficiently and quickly (Wardani, Mazidah, and Hidayah 2024b) and provides wider and faster access to relevant learning materials (Alwiyah and Sayyida 2020).

AI is a technology that has recently developed rapidly (Anggraini 2020). AI is a technology that has developed rapidly in recent years, enabling machines such as computers to complete tasks that traditionally necessitate human intellect, including deriving insights from data, detecting patterns, and formulating decisions based on human commands (Wardani, Mazidah, and Hidayah 2024a). The implementation of AI technology is very useful, including in education (Telaumbanua et al. 2024). The implementation of AI in education has a significant impact, thereby improving the quality and development of education (Fitria 2021). AI technology in education has the potential to revolutionize learning to make it more effective, efficient, and accessible. Providing various AI devices indicates a transformation in education because it can improve students' language skills and help educators organize their teaching resources (Floris et al. 2024). One of them is in English learning. This greatly supports the

development of students' English skills, because they can learn anywhere and anytime (Rahmadani et al. 2022).

Interactive applications, automatic translation, and speech recognition are AI features in English language learning that can help students learn independently. Translation tools powered by artificial intelligence have become very important in addressing linguistic challenges, particulary in education, where they have demonstrated significant value in addresing the diserve needs of students across all levels (Kusuma Nata Laksana and Cahya Komara 2024). Translation tools have been widely implemented in education . Software called "translation tools" can predict how words will be translated from one language to another (Fadhillah and Irawati 2024). AI-based translation applications such as Google Translate, DeepL, and ChatGPT are increasingly sophisticated in understanding linguistic context and producing translations that approach human quality (Shiddiq et al. 2024). Currently, one of the most popular translation applications is DeepL. DeepL is an online translation service known for its superior machine translation. DeepL translates documents and texts in various languages using artificial intelligence and neural network technology (Jabbar and Hilman 2024).

Students have utilized artificial intelligence (AI) to help with their college assignments (Zahra Salsabilla et al. 2023), especially in English education. English education students use the DeepL application as an alternative translation tool for written college assignments such as papers. This application offers several advantages in terms of features. In addition, this application is easily accessible and is in demand by many people (Meuthia, Ferdawati, and Gustati 2021). Although the DeepL application offers many advantages, its use still has several challenges (Alzubaidi et al. 2021). One of the challenges may face includes relying on technology, which can hinder their progress in free translation. In addition, when DeepL fails to handle the complexity of language in certain situations, such as idioms or very specific sentence structures, even though the application is known to have high translation quality (E. Liu, Chaudhary, and Neubig 2023). Previous studies have discussed the use of the DeepL application as a translation aid. In the study by Vennita & Hasanah (2024), the researchers studied the comparison of two translation methods, namely human translation and translation using DeepL. The results of this research showed that translation by technology helps individuals in the translation process. However, translation with a machine translator still requires human intervention at the editing stage to ensure the right word selection and perfect translated text. A research conducted by Bunga & Katemba (2024) discusses the comparison of the quality of translations produced by two machine translation applications, namely Google Translate and DeepL, in translating text from a foreign language to English. The results of this research show that the application of the DeepL is more accurate and more in demand by students as a translation tool compared to the Google Translate application. This is because the DeepL application is easy to access and has several features. The application of translation tools in crafting argumentative essays. The results of this research show that English students use various translation aids according to their needs in the crafting argumentative discourse including Google Translate, DeepL, and Microsoft Word applications (Fadhilah & Irawati, 2024). Different from previous studies, researchers in this study emphasize the analysis of the use of the DeepL application as an alternative translation media for English language education students to help with their academic assignments. The aim of this research is to analyze the effectiveness, advantages, disadvantages, challenges of using the DeepL application, and the quality and accuracy of the translation produced by the DeepL application as an alternative translation media based on the perceptions of English Language Education students.

METHOD

This study employs a qualitative approach by a qualitative descriptive research design. The qualitative approach is a type of scholary research that aims to investigate a phenomenon in its natural social setting through intense communication interactions between researchers and the phenomenon (Zaini et al. 2023). This uses non-numerical data, such as text, interviews, observations, documents, or artifacts, to explore more complex meanings, patterns, and understandings. Qualitative approaches have significant relevance because they can explore deep understandings of the context, meaning, and complexity of human relationships with their social environment (Haki, Prahastiwi, and Selatan 2024)This also highlights the flexibility and depth of insight that qualitative research provides in exploring participant perceptions and uncovering previously unmeasured aspects of social phenomena (Haki, Prahastiwi, and Selatan 2024). This study used interview, observation, and documentation approaches to collect data. The interview method is the most widely used. Interviews were conducted with students who actively use DeepL in their academic assignments. Respondents consisted of 6 English study program students who had used the DeepL application to translate academic assignments. Before conducting the interview, the researcher created questions related to the research title, after which the questions would be asked to English students as users of the DeepL application to obtain the data results. After the data was successfully collected, an analysis was carried out to understand and formulate conclusions in the context of this study. In addition to conducting interviews, the researcher observed students who used the DeepL application to complete their assignments to obtain relevant data. Data analysis in qualitative research tracking and organizing field data collected through observation, interviews, and other sources (Alim, Basthomi, and Suharyadi 2024). The data analysis employs in this research is a descriptive analysis method. This means that this study explains in detail the effectiveness, advantages, disadvantages, and challenges of using the DeepL application, as well as the quality and accuracy of the translation produced by the DeepL application as an alternative translation media based on the perceptions of English Education students.

RESULTS AND DISCUSSION

Results

This study was conducted through interviews and observations of six English education students who actively use the DeepL application as an alternative translation media to help complete academic assignments. The findings are presented based on the following main themes:

1. **The level of effectiveness of DeepL in translating students' academic assignments.**

   Most respondents (5 out of 6) considered the DeepL application highly effective in helping students, especially in completing academic assignments in English. The effectiveness of DeepL also helps students do their assignments more efficiently. Students who use this application feel that they can complete translation assignments much faster than using manual methods or other less effective translation tools. The DeepL application also has significant advantages compared to other translation tools, such as Google Translate. This makes the DeepL application widely used by people, especially among students. One student stated:

   > *"This DeepL application is very effective as a translation tool, especially for academic assignments of students like us. Because the translation produced is more accurate than others translation applications, including Google Translate."*

Meanwhile, one respondent argued that although the DeepL application is effective and very helpful in student assignments, it is still important to combine DeepL with manual revision to hone their translation skills and results.

2. **DeepL's Advantages as a Translation Medium**
   a. **Accuracy and Context:** Five out of six respondents stated that the DeepL application produced accurate and contextual translations. And by grammar. One student explained:

   > *"The translation is accurate and there are not many mistakes. This application is worthy of being used by students, including me as a translation tool."*

   Meanwhile, one respondent said that sometimes this application provides less accurate translations.

   b. **Time Efficiency:** Most respondents admitted that using the DeepL application speeds up the translation process because this application can translate one document at a time, so they can focus more on analyzing the content of the assignment and writing. One of them said:

   > **"***Translating using the DeepL application is faster and more efficient than other methods and applications.***"*

3. **DeepL's shortcomings in translation**
   Despite having many advantages, researchers also identified several weaknesses of DeepL. Among them:
   a. **Free Feature Limitations:** All respondents thought that the free version of DeepL has limitations in the amount of text that can be translated at once. This is an obstacle for students who want to translate long documents, such as journals or reports. If the premium feature version requires a subscription fee, it may not be affordable for all users. One of them said:

   > *"The downside of DeepL is that it has a paid version (DeepL Pro)."*

   b. **Limitations in Translation:** Most respondents said that one of the drawbacks of this application is that it has limited words that can be translated. One student said:

   > *"The downside is that DeepL has a limit on the number of words that can be translated."*

4. **Student Perceptions of Translation Accuracy and Quality**
   Students' perceptions of the accuracy and quality of translations produced by the DeepL application vary widely, but most students/respondents gave positive views regarding these two aspects. Based on interviews and data collected, most students consider that DeepL produces translations with a high level of accuracy and almost no errors in terms of grammar. The translation results use a scientific language style and are appropriate for the academic context, so this application is worthy as a relevant translation tool for students. Students who need translations for academic assignments, journals, or scientific articles are greatly helped by DeepL's ability to choose more formal and appropriate words, according to the academic context. One respondent said:

   > *"The DeepL application has proven to be effective in producing accurate and quality translations in the context of English assignments. Although there are many AI-based translation applications, DeepL is worthy and quite helpful for students in translating academic assignments."*

   However, they also recognize the importance of requiring manual revisions to ensure accuracy, especially in technical terms or idioms.

5. **The Effect of Using DeepL on Students' Comprehension and Skills**

Most respondents assumed that the use of this application greatly influenced students' understanding and abilities, both positive and negative. They said that there were several positive impacts felt by students in using this application, such as improving students' understanding in understanding English texts, helping them learn vocabulary and sentence structure, and they could learn independently through this application. One of them said

> *"Of course, to understand a foreign language we need a translation tool like Deepl, especially for academic needs."*

However, they also said that the use of this application hurts students, such as if we rely too much on the use of this application as a translation tool, then students may become less accustomed to the process of thinking in English, as well as hindering the improved critical thinking skills, grammatical comprehension, and the ability to write in English independently. One student said:

> *"If we rely too much on this application, our brain performance will decrease in understanding and honing our English skills."*

Discussion

The results of this study show that the DeepL application proves to be a highly effective translation tool and has great potential as an alternative translation media, especially in helping English language students' academic assignments. Most of them feel helped by DeepL's features, which not only provide convenience in the translation process but also contribute significantly to enhancing the quality and efficiency of their academic assignments compared to manual methods and other translation applications.DeepL has proven to be very effective in increasing translation time efficiency because this application can translate one document at a time. One of the main advantages of this application identified by researchers in this study is DeepL's potential to earn more natural and accurate translations when compared with other translation applications, such as Google Translate. DeepL can choose more appropriate words according to the context of the sentence, especially in academic texts that require formal and scientific language nuances. So this application is worthy and effective as an alternative translation media that is relevant for students. In addition to efficiency and accuracy, the use of the DeepL application also has an impact on students' understanding and abilities. They can learn new vocabulary and understand how English sentences are structured through the translation provided by DeepL. Several challenges were also found in this study including students' dependence on the use of technology which can hinder their ability to think critically and independently. In addition, shortcomings were found in its use, such as not all of the translation results produced were accurate and correct, so students needed to revise the manual to ensure accuracy, especially in technical terms or certain terms, there were limits in translating sentences. Therefore, students still need to use this application wisely to ensure they do not miss the opportunity to develop their English skills. This finding agrees with the research (Cotelli Kureth et al. 2023), states that DeepL offers higher translation accuracy and more natural results. DeepL's precision level is superior to other machine translators such as Microsoft Interpreter and Google Translator. In addition, DeepL's superiority in understanding the context of sentences supports the statement (Atarchi, Abdelkarim Elamari, and Mohamed Marouane 2024), which says that Artificial intelligence or (AI) technology-powered translation tools have revolutionized automatic translation producing adequate and accurate translations. However, shortcomings were also identified, such as limitations in translating technical term sentences. Found in previous research by (Riza 2024), there is a slight drawback in the Deepl application, namely the limitations in the meaning of certain sentences or terms. If DeepL translates word by word, the results obtained make the translation inaccurate.

CONCLUSION

This study shows that the DeepL application has significant potential as an effective alternative translation media in supporting students, especially in completing English academic assignments. According to the identification results, it is evident that most students feel very helpful in producing accurate, natural, and contextually appropriate translations. The principal advantage of this application is the ability to use appropriate and formal words, which are very important in translating scientific and academic texts. DeepL has also been shown to increase time efficiency in completing translation assignments, so can focus on other aspects, such as analysis or writing. Overall, the Deepl application is a proven translation tool that produces quality translations that are very useful in supporting the translation of students' academic assignments, although there are some shortcomings, namely the limitations of translating certain sentences or terms. Students need to use this application wisely to avoid dependence on technology which can hinder the development of students' understanding and abilities in the English context. Students are advised to continue to involve their language understanding in the translation process and not rely entirely on this application.

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