



Utilization of Artificial Intelligence Applications In Compiling Scientific Papers

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Abstrak: Dunia pendidikan adalah salah satu bidang yang dapat mengadopsi adanya teknologi Artificial Intelligence (AI), sehingga mampu memberikan kemudahan dalam hal-hal positif, salah satunya dalam penulisan artikel ilmiah mahasiswa. Penelitian ini bertujuan untuk memberikan alternatif solusi terhadap masalah mahasiswa dalam menulis karya ilmiah, baik itu berbentuk Skripsi, Tesis, ataupun menulis artikel. Latar belakang dari penelitian ini yaitu adanya keterbatasan mahasiswa dalam mencari referensi dalam menulis karya ilmiah, referensi yang dicari baik dari tingkat nasional maupun internasional. Metode penelitian menggunakan studi pustaka untuk mendeteksi aplikasi Artificial Intelligence (AI) yang dapat memudahkan mahasiswa dalam menulis karya ilmiah. Hasil dari tinjauan didapatkan sebanyak 3 aplikasi Artificial Intelligence (AI) dalam memudahkan mahasiswa dalam menulis karya ilmiah. Dalam hal ini, Artificial Intelligence (AI) digunakan untuk mempercepat waktu mahasiswa dalam menulis karya ilmiah. Dengan demikian, penelitian ini dapat menjadi referensi bagi mahasiswa yang sedang menyusun karya ilmiah.

Kata kunci: *Pemanfaatan. Artificial Intelligence (AI)*

Abstract: The world of education is one of the fields that can adopt Artificial Intelligence (AI) technology, so that it can provide convenience in positive things, one of which is in writing student scientific articles. This research aims to provide alternative solutions to the problems of students in writing scientific papers, be it in the form of Thesis, Thesis, or writing articles. The background of this research is the limitation of students in finding references in writing scientific papers, references that are sought from both national and international levels. The research method uses a literature study to detect Artificial Intelligence (AI) applications that can facilitate students in writing scientific papers. The results of the review were obtained as many as 3 applications of Artificial Intelligence (AI) in facilitating students in writing scientific papers. In this case, Artificial Intelligence (AI) is used to speed up students' time in writing scientific papers. Thus, this research can be a reference for students who are compiling scientific papers.

Keywords: *Utilization, Artificial Intelligence (AI)*

1. INTRODUCTION

system to interpret external data correctly, to learn from that data, and to use that learning to achieve specific goals and tasks through flexible adaptation. through flexible adaptation. are generally thought of as intelligence is created and incorporated into a machine/computer so that it can do the work that humans can do. can be done by humans. Some of the fields

2.

Artificial Intelligence is intelligence that is added to a system that can be organized in a scientific context or can also be called Artificial Intelligence or simply abbreviated as AI, is defined as intelligence scientific entity. Andreas Kaplan and Michael Haenlein define artificial intelligence as "the ability of a

one of the alternatives for students in finding various parts of knowledge.

Artificial Intelligence (AI), or in Indonesian known as Artificial Intelligence, is a branch of computer science that aims to develop systems and systems and machines that are capable of performing tasks that would normally require human intelligence. AI involves the use of algorithms and mathematical models to enable computers and other systems to learn from data, recognize patterns, and make intelligent decisions Translated with DeepL.com (free version)⁵. The 21st century has experienced a rapidly changing landscape in educational practices largely due to advancement in technology (such as artificial intelligence)⁶.

The use of artificial intelligence (AI) in higher education (HE) has risen quickly in the last 5 years⁷. Artificial intelligence (AI) in writing scientific articles is a promising alternative to solve this problem. Karyadi: Artificial intelligence is a computer program that is designed to mimic human intelligence, such as human intelligence, such as logic, decision-making, and other traits. The process of writing scientific papers with AI does not only involve automating ordinary tasks. AI can also improve the quality of writing by providing suggestions and corrections to students. AI can detect grammatical errors, prevent plagiarism, and ensure that scientific writing conforms to the rules. Thus, artificial intelligence

that use artificial intelligence include expert systems, computer games (games), fuzzy logic, artificial neural networks and robotics¹.

Artificial intelligence (AI) is a part of computer science that makes machines (computers) do work like and as well as humans. that makes machines (computers) can do work like and as well as those done by humans. done by humans²

Artificial Intelligence is a foundation of many concepts in the field of computer science and technology. These concepts are machine learning, deep learning, robotics, computer vision, internet, recommender systems, and natural language processing³

Following the development of an increasingly advanced era, technology is becoming increasingly important in various aspects of life. both in academics and non-academics. According to Fonna Education is one of the fields that is greatly affected by technological advancements, especially in terms of technology, especially in terms of writing academic assignments⁴. In today's digital era, Artificial Intelligence applications are

¹ Mangapul Siahaan et al., "Penerapan Artificial Intelligence (AI) Terhadap Seorang Penyandang Disabilitas Tunanetra" 01, no. 02 (2020): 186–93.

² Luc Vinet and Alexei Zhedanov, *A "missing" Family of Classical Orthogonal Polynomials*, *Journal of Physics A: Mathematical and Theoretical*, vol. 44, 2011, <https://doi.org/10.1088/1751-8113/44/8/085201>.

³ Kevin D. Ashley, "Artificial Intelligence and Legal Analytics: New Tools for Law Practice in the Digital Age," *Artificial Intelligence and Legal Analytics: New Tools for Law Practice in the Digital Age*, 2017, 1–426, <https://doi.org/10.1017/9781316761380>.

⁴ F Ihsan, S Suharno, and N S Wardani, "The Analysis of Students' Readiness of Vocational Education in Facing the Opportunities and Threats on the Industrial Revolution ...," *Journal of Mechanical Engineering and ...* 3, no. 2 (2020): 91–97, <https://jurnal.uns.ac.id/jomeve/article/view/46016%0Ahttps://jurnal.uns.ac.id/jomeve/article/viewFile/46016/31333>.

⁵ Emi Sita Eriana and Drs. Afrizal Zein, "Artificial Intelligence," *Angewandte Chemie International Edition*, 6(11), 951–952, 2019.

⁶ Julie Petersen, "Innovative Assessment Practices," 2021, 14, <https://pub.towardsai.net/generative-ai-and-future-c3b1695876f2>.

⁷ Hui Chun Chu et al., "Roles and Research Trends of Artificial Intelligence in Higher Education: A Systematic Review of the Top 50 Most-Cited Articles," *Australasian Journal of Educational Technology* 38, no. 3 (2022): 22–42, <https://doi.org/10.14742/ajet.7526>.

In addition to the advantages mentioned above, the use of AI also enables development of significant technological skills significant. If students use when writing their scientific papers, they will have the opportunity to become more skilled in data processing and information analysis information. This can help them compete in an increasingly digitalized job market. With AI, not only can get the answers they need quickly and easily, but students can also explore more knowledge and information that supports their their lectures directly without

Other conveniences of AI that are useful as a supporting support tool because the application of technology such as artificial intelligence provides various tools to support teaching and learning in education that can provide a new learning experience¹¹

In addition, artificial intelligence is also is also used to compile a bibliography. Students no longer need to spend time manually searching for references because these tools can find relevant sources for the research topic. There are some situations where AI is also used to analyze data research. Machine learning algorithms can help in finding patterns in the data that may be difficult for humans to reach.

This can be a very useful tool in research that involves analyzing complex data. AI can serve as a friend and companion for students as they working on scientific papers. AI can assist students in improving their writing by providing

becomes an an effective partner to improve the quality of academic writing. The rise of technology artificial intelligence has opened our minds the importance of technological advancement. Especially for students who are pursuing higher education⁸. Because not only help facilitate all affairs but also can be used to open new insights about various things.

The emergence of AI has changed many aspects of human life, including learning and teaching in higher education⁹. many benefits of using artificial intelligence in scientific writing. One of the benefits is. The use of AI in research and writing can speed up the process. AI can assist in identifying relevant sources, compiling bibliography, and even analyzing research. With this efficiency, students have more time to construct arguments and explain concepts in their Scientific Paper.

In addition, AI can help in improving the quality of writing. AI can perform grammar corrections and provide recommendations for structure and content, so students can ensure that their writing is better academically and communicative. Thus, AI helps to reduce errors and improve quality of scientific papers. AI can also improve access to to research resources. Students can access various journals, articles, and literature through AI-powered search engines without having to spend excessive time to search. This can help students search for relevant literature¹⁰.

⁸ Bambang Karyadi, "Pemanfaatan Kecerdasan Buatan Dalam Mendukung Pembelajaran Mandiri," *Educate: Jurnal Teknologi Pendidikan* 8, no. 2 (2023): 253–58, <https://doi.org/10.32832/educate.v8i02.14843>.

⁹ Stefan A.D. Popenici and Sharon Kerr, "Exploring the Impact of Artificial Intelligence on Teaching and Learning in Higher Education," *Research and Practice in Technology Enhanced Learning* 12, no. 1 (2017), <https://doi.org/10.1186/s41039-017-0062-8>.

¹⁰ Aswin Abbas, "Analisis Survey Penggunaan Artificial Intelligence (AI)

Dalam Penulisan Tugas Akhir Karya Tulis Ilmiah (TA-KTI) Di Kampus Akademi Ilmu," *Prosiding Seminar Nasional Pertukaran Mahasiswa Merdeka*, 2023, <https://jurnal.fkip.unismuh.ac.id/index.php/prosidunimbone/article/view/1461/416>.

¹¹ Kyoungwon Seo et al., "The Impact of Artificial Intelligence on Learner–Instructor Interaction in Online Learning," *International Journal of Educational Technology in Higher Education* 18, no. 1 (2021), <https://doi.org/10.1186/s41239-021-00292-9>.

of theses and papers. These materials are used as a source of inspiration or ideas that can generate other ideas or thoughts.¹⁴

The research steps are adjusted to the stages of qualitative research. The research steps are adjusted to the qualitative research stages of the literature study, namely: (1) searching for primary and secondary sources, (2) data processing/reference citation, (4) displaying data, (5) interpretation of data, (6) conclusions¹⁵

4. RESULT AND DISCUSSION

A. Open Knowledge Maps

Open Knowledge Maps was also run as an additional tool to map and analyze the retrieved data. It works by presenting a topical overview based on the relevant documents¹⁶

Our goal in Open Knowledge Maps is to revolutionize discovery of scientific knowledge. We are building a visual interface that dramatically increases the visibility of research findings for science and society alike. We are a charitable non-profit organization and we believe that a better way to explore and discover scientific knowledge will benefit us all.

Steps for Using Open Knowledge Maps are:

1. Visiting the official website

¹⁴ Milya Sari and Asmendri Asmendri, "Penelitian Kepustakaan (Library Research) Dalam Penelitian Pendidikan IPA," *Natural Science* 6, no. 1 (2020): 41–53, <https://doi.org/10.15548/nsc.v6i1.1555>.

¹⁵ Wahyudin Darmalaksana, "Metode Penelitian Kualitatif Studi Pustaka Dan Studi Lapangan," *Pre-Print Digital Library UIN Sunan Gunung Djati Bandung*, 2020, 1–6.

¹⁶ Ahmad Abbas and Manswab Mahsen Abdulrahman, "About Scholarly Works in the Field of Islamic Economic Law: A Visualization of Related Topics," *Milkiyah: Jurnal Hukum Ekonomi Syariah* 2, no. 1 (2023): 46–55, <https://doi.org/10.46870/milkiyah.v2i1.267>.

feedback and suggestions. AI can help in crafting stronger arguments and provide better content alternatives.

Academic writing is an essential component of research, characterized by structured expression of ideas, data-driven arguments, and logical reasoning. However, it poses challenges such as handling vast amounts of information and complex ideas. The integration of Artificial Intelligence (AI) into academic writing has become increasingly important, offering solutions to these challenges. This review aims to explore specific domains where AI significantly supports academic writing¹²

Based on the explanation above, this study aims to look at various kinds of AI to make it easier for students to write scientific papers.

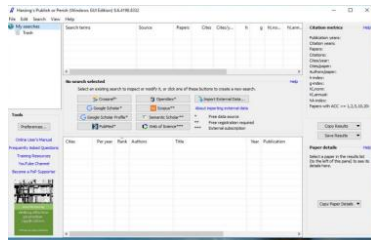
3. METHODOLOGY

The method used in this research is library research. Research Library research allows researchers to conduct library research through a series of activities of collecting library data by reading, recording, and processing research data. The research data will then be presented descriptively¹³.

Therefore, it can be stated that this research also uses a qualitative approach by describing the results of the research descriptively based on the results of the literature search. The main sources of research data are scientific papers relevant to artificial intelligence (AI) such as books, articles from journals and the internet, as well as student scientific works in the form

¹² Mohamed Khalifa and Mona Albadawy, "Using Artificial Intelligence in Academic Writing and Research: An Essential Productivity Tool," *Computer Methods and Programs in Biomedicine Update* 5, no. March (2024): 100145, <https://doi.org/10.1016/j.cmpbup.2024.100145>.

¹³ Muannif Ridwan et al., "Pentingnya Penerapan Literature Review Pada Penelitian Ilmiah," *Jurnal Masohi* 2, no. 1 (2021): 42, <https://doi.org/10.36339/jmas.v2i1.427>.



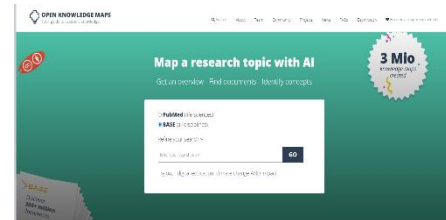
The results of the data known that the utilization of the Publish or Perish application in writing scientific work or student theses is quite effective and efficient in searching for credible and relevant scientific journal references. The results of the data show that the utilization of the Publish or Perish application in writing scientific papers or student theses is quite effective and efficient in searching for credible and relevant scientific journal references. There are conveniences obtained by students in searching for scientific journal references when compared to searching for scientific journal references manually¹⁸.

C. CONSENSUS.AI

Consensus app is a tool designed to help researchers collect, organize, and refer to information sources more effectively. Researchers can save time, reduce writing errors, and overall improve the quality of the theoretical basis in scientific papers by using this application¹⁹.

Consensus is a search engine that uses language models to surface papers and synthesize insights from academic research papers. In writing, students often have difficulty in mastery. This of course can reduce

The first thing you need to do is visit the official website at openknowledgemaps.org.



2. Searching
3. Reading mapping from Open Knowledge Maps
4. Documenting the mapping results

B. Publish Or perish

The Publish or Perish (PoP) application was first discovered by a professor of management at Middlesex University named Anne-Wil Harzing which was then developed in the year since 2006 until now. The application is given free of charge to journal reference search that is integrated for Crossref, Google Scholar, Google Scholar Profile and PubMed. The Publish or Perish (PoP) application also provides free of charge by registration for scientific journal reference searches integrated with OpenAlex, Scopus, Semantic Scholar and Web of Science. The working principle of the Publish or Perish (PoP) is to develop meta data, stored in RIS format that can be added in reference managers such as mandeley¹⁷.

Steps for Using Publish or Perish (PoP) are:

1. Download the app Publish or Perish (PoP)
2. Perform the download process

¹⁸ Hutapea.

¹⁹ Andika Hariyanto Surbakti et al., "Memperkuat Landasan Teori Karya Ilmiah Mahasiswa Dengan Aplikasi Consensus," *JPMA - Jurnal Pengabdian Masyarakat As-Salam* 3, no. 2 (2023): 63–68, <https://doi.org/10.37249/jpma.v3i2.685>.

¹⁷ Bilferi Hutapea, "Analisis Pemanfaatan Aplikasi Publish or Perish Terhadap Penu- Lisan Karya Ilmiah Mahasiswa," *Jurnal Pendidikan Dan Keguruan* 1, no. 1 (2023): 39–52, <https://ejurnal.staialgalisoppeng.ac.id/index.php/pelita/article/download/13/11>.

This is very useful in making term paper assignments, creating chapter 2 of research, and writing final assignments.

4. CONCLUSION

AI can significantly improve the efficiency and productivity of scientific writers. By using AI tools, authors can save time typically spent on tasks such as grammar checking and reference management, and focus more on content and analysis.

In this era of rapidly evolving technology, expertise in the use of software has become a crucial skill for many professions. software has become a crucial skill for many professions, especially for students. Many technologies are needed to facilitate the writing of student scientific papers, there are several applications that can be used, namely Open Knowledge Maps, Consesus.Ai, And Publish Or Perish.

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problems such as vocabulary and grammar. Difficulty getting ideas or ideas that are always an obstacle, even though in writing, writers are required to have ideas, ideas and adequate vocabulary that will be raised in writing. In essence, everyone must have a number of ideas in their minds. However, there are still many students who are unable to pour their ideas and develop them into a paragraph which then becomes a good writing²⁰.

Steps for Using Consensus.ai are:

1. Access Consensus via the link <https://consensus.app>



2. create account
3. Enter the topic you want to study
4. Read through the list and select the articles or books you want to read. If you want to download a paper,
5. Use search term limitations by applying several filters such as year, research type, scopus Q1-Q4, etc.
6. use the csv export feature to generate a summary list of Consensus AI recommended articles
7. Save search result with "Saved Search"

In this application, it can also be used to answer questions accompanied by literature, accompanied by literature evidence.

²⁰ Siti Aminah Hasibuan and Fatin Nadifa Tarigan, "Kemampuan Menulis Teks Argumentasi Mahasiswa Dengan Metode WH-Questions," *Jurnal Ilmiah KORPUS* 6, no. 3 (2022): 278–84, <https://doi.org/10.33369/jik.v6i3.25085>.

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