# The Revolutionary Advent of Al in Research and **Publishing: A Global Study**

Riya Thomas, Uttkarsha Bhosale, Kriti Shukla Enago Academy, Enago Email: academy@enago.com





#### Introduction:

- Al and machine learning have transformed several industries over the past decade, facilitating easier and faster automation of several processes
- In the academic publishing industry, Al-based technologies are being developed and implemented to assist both authors and publishers in tackling issues related to peer review, searching published content, detecting plagiarism, identifying data fabrication, automated text analysis, content translation, content personalization, SEO, chatbots,
- However, there are many challenges associated with its adoption.
- To understand the influence of AI on the global publishing landscape, a survey had been designed to capture the global response. Here, we aim to outline the challenges currently faced and suggest possible ways to support a smooth transition.

# Methodology:

- The survey was released by Enago Academy in English.
- More than 350 respondents from 212 universities across 54 countries, representing diverse cultures, academic roles, and fields of research participated in the survey.
- Participants included researchers (early career and established), journal editors, and publishers from different fields such as biological and life sciences, medicine and health sciences, artificial intelligence, computer sciences, media communications, etc.
- The survey was conducted between August 27 and October 3, 2021.

# **Objectives:**

Our primary aim was to understand the following:

- The general perception and awareness about Al.
- The adoption rate and popularity of Al-based tools in the scholarly community (researchers,
- The perceived benefits and concerns related to the use of AI in academic publishing.
- If users appreciate the value that AI is delivering or are more concerned about the rise of AI.

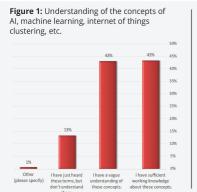
# Conclusion:

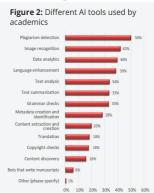
- Researchers, authors, editors, and publishers are already experimenting with Al tools to improve the current workflow and efficiency. Majority of the survey respondents opinionated that the academic publishing landscape will benefit from increased automation and Al.
- of survey respondents have claimed that a major limitation to implementing AI is the lack of
- Due to increasing demand for quality publication with higher peer review speed, Al will undoubtedly be used more commonly in academic publishing. Therefore, educating and creating awareness to ease the possible fears and hesitation, and to realize the promising



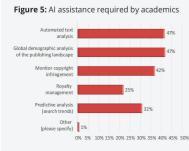
#### **Results:**

### Awareness About Applications of Al in Academic Publishing

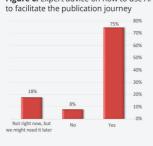




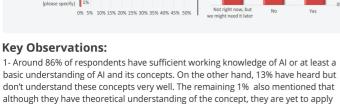
# What Do Academics Expect From AI?

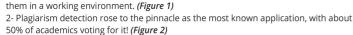


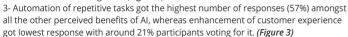
**Key Observations:** 



# Figure 6: Expert advice on how to use Al







4- Out of all the key concerns, respondents found that lack of competency to understand AI and difficulties in integrating AI-based solutions in existing IT infrastructure are the major obstacles in adopting Al. (Figure 4)

#### How Has AI Revolutionized Academic Publishing?

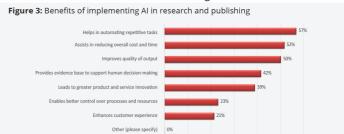
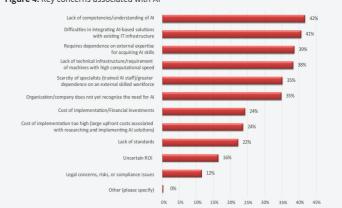


Figure 4: Key concerns associated with Al



5- It is also determined that the academic community would require AI assistance majorly in global demographic analysis and to perform automated text analysis. (Figure 5)

6- The findings also suggest that 75% respondents need expert advice on how to successfully and effectively implement AI to ease their publication journey. Furthermore, about 18% mentioned that they might require Al assistance in the near future. These observations ascertain the need of AI in academic publishing. (Figure 6)

Future Study Prospects with Enago: While this survey's analysis confirms the need for AI in research and publishing, there is more to delve into how AI can bolster the publishing landscape in several disciplines. Enago Academy will strive to be at the forefront of such studies and urge thought leaders to get in touch with us via email at academy@enago.com.

