

A Comparative Study on Awareness and Usage of Artificial Intelligence Tools among Students and the General Public

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Abstract:

Artificial Intelligence (AI) is rapidly transforming various sectors, particularly education and everyday decision-making processes. This study examines the level of awareness, usage patterns, and perceptions of AI tools among students and the general public. A structured survey was conducted using a questionnaire distributed through Google Forms, collecting 70 valid responses. The survey included questions related to familiarity with AI, frequency of usage, confidence levels, and perceived benefits and challenges. The collected data were analysed using percentage methods and graphical representations to identify trends and differences between the two groups. The findings reveal that students demonstrate significantly higher awareness and more frequent usage of AI tools compared to the general public. Additionally, students exhibit greater confidence in applying AI technologies for academic and practical purposes.

The study emphasizes the role of digital literacy and educational exposure in shaping AI adoption. It concludes that targeted awareness initiatives and training programs can help bridge the knowledge gap and promote responsible and effective use of AI tools in society.

Keywords:

Artificial Intelligence, AI Awareness, AI Usage, Students, General Public, Digital Literacy

Introduction:

In the present time, Artificial Intelligence (AI) is growing veritably fleetly and getting an important part of everyday life. AI tools similar as ChatGPT, YouTube recommendation systems, voice sidekicks, and online literacy operations are extensively used by people across different fields. These tools are n't limited to a specific group; they're integrated into the diurnal conditioning of numerous individualities. Scholars constantly use AI tools for academic purposes similar as writing assignments, conducting exploration, working problems, and creating content. At the same time, members of the general public including social media druggies, shopkeepers, professionals, and other citizens also use AI in colorful ways, similar as online quests, digital marketing, entertainment, and business support. Still, an important question arises What's the position of mindfulness of AI tools among scholars compared to the general public? To address this question, this exploration study has been conducted.

The purpose of this study is to examine who's further apprehensive of AI tools, who uses them more constantly, and how confident people feel while using them. The main ideal of this exploration is to

understand the real impact of Artificial Intelligence on different groups of society and to dissect its significance in shaping the future.

Objectives:

1. To examine the level of awareness of AI tools among students and the general public.
2. To compare the usage of AI tools between students and the general public.
3. To understand the level of confidence people have while using AI tools.
4. To identify the problems or barriers faced by students and the general public in using AI tools.
5. To analyse the role of AI in shaping the future of society.

Research and Methodology:

This study adopted a survey method to examine the knowledge level and usage of AI tools among students and the general public. A structured Google Form was distributed to both groups, and a total of 70 responses were collected. The methodology included:

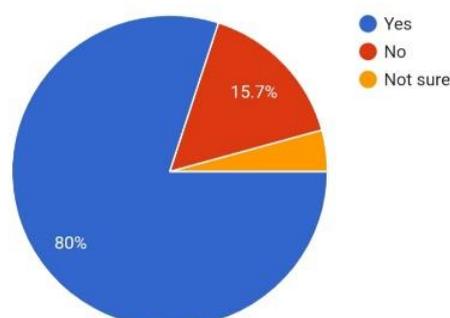
- Designing a structured questionnaire for data collection.
- Including multiple-choice questions on awareness, usage, confidence, and challenges.
- Distributing the form to students and the general public.
- Collecting and organizing 70 valid responses.
- Analyzing the data using charts and percentage methods for comparison.

Hypothesis:

In this research, it is assumed that students are more aware of AI tools compared to the general public, that their usage is more frequent, and that their confidence level is higher. Based on the analysis of 70 collected responses, it is clear that students show higher level of knowledge, usage, and confidence levels than the general public. Therefore, our hypothesis is accepted according to the data.

1) Are you familiar with the term "Artificial Intelligence (AI)"?

70 responses

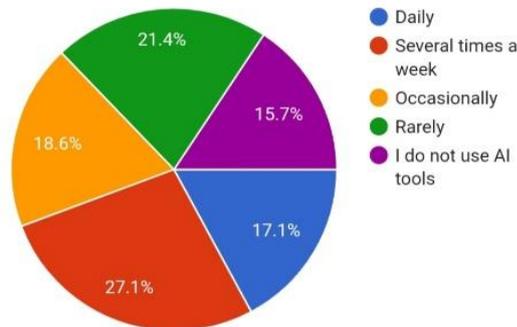


Awareness of Artificial Intelligence (AI)

80% of respondents reported familiarity with the term Artificial Intelligence, indicating a high general awareness level.

5) If yes, how often do you use AI tools?

70 responses

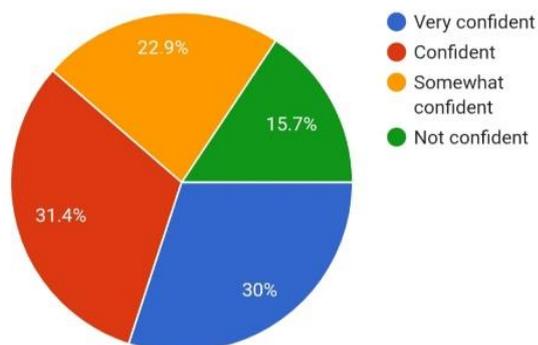


Usage of AI Tools Among Respondents

A significant 80% of participants use AI tools, with most using them several times a week or daily.

7) How confident do you feel while using AI tools independently?

70 responses

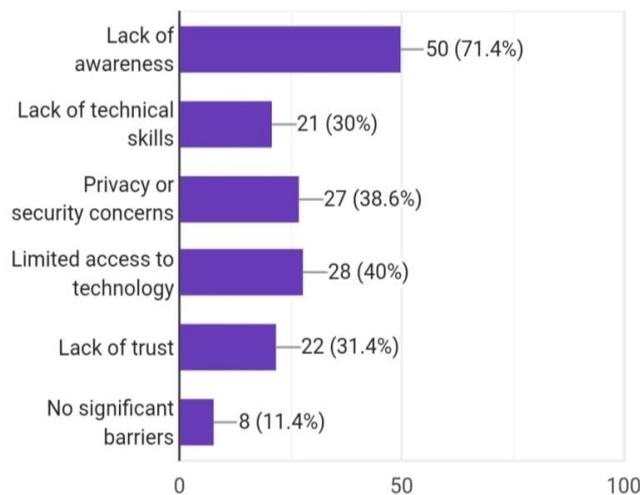


Knowledge and Confidence Levels in AI Usage

Most respondents reported moderate to basic understanding, with over 60% expressing confidence in independent AI usage.

9) What challenges prevent wider adoption of AI tools among the general public?

70 responses



Challenges in Wider AI Adoption

Lack of awareness (71.4%) and limited access to technology are major barriers to AI adoption.

Review and literature:

Several studies have explored knowledge and education related to Artificial Intelligence (AI). Kandlhofer et al. (2023) emphasized the importance of AI education in improving students' understanding and responsible use of AI technologies. Their research suggested that integrating AI concepts into academic programs helps increase awareness and acceptance among learners. Similarly, Syed and Al-Rawi (2023) investigated AI awareness and perceptions among healthcare students in Saudi Arabia. The outcomes reported showed that students generally had a positive attitude and a reasonable level of knowledge about AI, although some gaps in knowledge were identified. These findings suggest that students tend to have considerable exposure to AI technologies. The present study extends this analysis by comparing AI awareness and usage between students and the general public.

Discussion:

The outcomes of the study indicate that students demonstrate a higher level of awareness, usage, and confidence in applying AI technologies tools compared to the general public. This difference may be attributed to greater academic exposure and frequent interaction with digital technologies among students.

The results are consistent with previous research, which suggests that educational engagement plays a significant role in enhancing AI awareness and adoption. Overall, the study highlights the importance of education and digital exposure in shaping AI usage patterns within society.

Critical analysis:

Strengths

- The study includes both students and members of the general public, enabling a clear comparative analysis.
- Data was collected using a structured questionnaire, ensuring consistency and reliability in responses.
- The use of charts and percentage-based analysis helped present findings in a clear and interpretable manner.

Limitations

- The sample size was limited to 70 respondents, which may not fully represent the broader population.
- The study relied on self-reported responses collected through an online survey, which may introduce response bias.
- The geographical and demographic scope of the survey was limited, restricting the generalizability of the findings.

Future Scope:

- Future research can involve a larger and more diverse sample to enhance representativeness.
- Advanced statistical techniques may be applied for deeper analytical insights.
- Further studies can explore additional variables such as age, profession, or educational background for a more comprehensive understanding.

Conclusion:

The study concludes that students demonstrate higher levels of awareness, usage, and confidence in utilizing Artificial Intelligence tools compared to the general public. Educational exposure and regular interaction with digital technologies play a significant role in influencing AI adoption.

The findings suggest that increasing awareness and providing structured training for the general public can enhance the effective and responsible use of AI tools across society.

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