RESEARCH ARTICLE

SURVEYOF AI TOOLS USE BY ACADEMIC LIBRARIANS IN NASHIK, MAHARASHTRA INDIA

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ARTICLE INFO	ABSTRACT
	The aim of the paper to study the awareness of librarians regarding AI tools.in Nasik city, Maharashtra. The data was collected by the researcher using survey method. The findings of the study show that the maximum librarians has aware about the AI tools, Chat Gpt commonly used by librarians. They used the tool for different purposes like information retrieval, preservation, research, Chabot, research, library in house work etc. The researcher has identified the many librarians are aware about the tool but they do not useit properly.

INTRODUCTION

"Nothing is permanent in the world" Like this statement, there have been many changes in the library sector. As we know library plays an important role in the society. Therefore, it is necessary to change the library with time. "Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognitionand machine vision."Emerging trends in library and information services models are demonstrating reliance on machines. Computers, laptops tablets, mobile and other devices are replacing human beings., not only in libraries but also in all other sectors Library services are being replace by machine and technology based services are being adopted in modern libraries. Before COVID-19 libraries focused on providing physical services and try to communicate with the patrons but during the COVID-19 librarians has started using electronics to self-educate, to user In the present study the researchers has conducted a survey to find out the awareness and utilization of AI tools by academic librarian in Nashik city Maharashtra.

LITERATURE REVIEW

Jamila Hamdan Al-Aamri and NourEldinElshaiekh Osman (2022) this study was described the role of Artificial Intelligence Applications of knowledge management in different information organizations, as well as to identify the reality of employing artificial intelligence applications in libraries to enrich the Knowledge

Management. The research was based on descriptive method. The finding of the study most important results of which are: There are a lot of libraries that apply artificial intelligence technology in their services, whether technical in the provision of services, references and others, which undoubtedly facilitated the ease of retrieval and search for the users, the available studies discussed various aspects of the reality that this new application plays in facilitating library services, and most studies agree on that to facilitate services and their quality intelligence and the application of artificial intelligence requires the availability of a set of basic ingredients and requirements. ADEJO, Alhaji Augustine and MISAU, Ali Yakubu (2021) studied the application of Artificial intelligence in Academic libraries in Nigeria. The research design adopted was qualitative research method, using expository approach for the study. The research objective set to guide this study is how the application of Artificial Intelligence could be used in Nigerian Academic Libraries. Findings from the present study showed that AI could be applied in Academic library services in Nigeria like Expert Systems in Reference Services, Technical, Indexing, Acquisition and its application in Natural Language Processing, Pattern Recognition and Robotics in library activities. MoumitaSaha Banerjee (2020) presented the impact of Artificial intelligence and Expert Systems on library and information science and library system. Research has discussed the benefit and demerit of artificial intelligence and machine learning. The finding of the study AI could be use in Academic library services like Expert Systems in Reference Services, Technical, Indexing, Acquisition and its application in Natural Language Processing, Pattern Recognition and Robotics in library activities.

The Hauptmann *et al.* (1997) study explores the use of artificial intelligence techniques in a digital video library. The authors aim to automate metadata production to support the library's interface, making it more user-friendly. The study applies speech recognition, natural language processing, and image analysis to create specific AI-based interface components such as video skims, representative frames, and word location marking. These AI techniques provide a user interface to the digital video library, allowing users to locate and retrieve relevant information quickly. The authors note that while there are imperfections in each of the AI techniques used, they are still effective in creating robust navigation tools for the digital video library

Scope: There are many academic libraries in Nashik City. Due to time constraints, the study has been limited only to the 100 academic libraries of Nashik City, Maharashtra.

Objectives

- To study the awareness of librarians regarding AI tools.
- To find the purpose of AI tools in the library
- To identify the name of AI tool used by librarians
- To identify the function of the AI tool in library

Research Methodology

The present study is based on the survey method. The researchers has selected randomly 100 academic libraries in Nashik City. Questionnaire tool is used for data collection. The questions are framed in the questionnaire. Few questions are open-ended like suggestions, and opinions. The remaining all are close-ended. The 90 valid responses were received from respondents. The data were inputted into and analyzed using SPSS.

Result and discussion

Awareness of AI tool: To know the awareness of librarian regarding AI tool. Many librarians are aware about AI tool but few are not aware. The percentage of awareness of AI tool is given below.

Awareness of AI tool

Table 1. Awareness of AI tool.

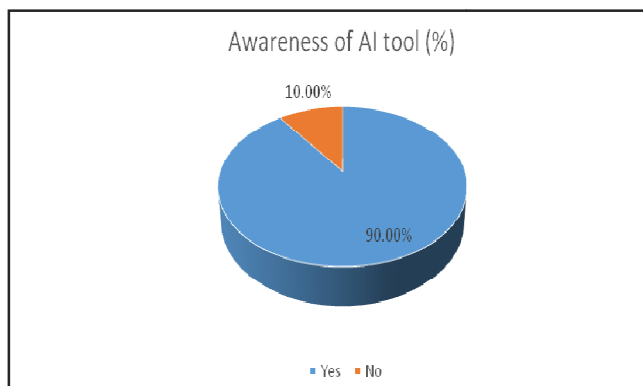| Response	Yes	No
Awareness of AI tool (%)	90%	10%

Figure 1. Awareness of AI tool (%)

Table no.1and figure no. 1 shows the awareness of librarians regarding AI tools. Maximum librarians are aware of the tool but many are not. As per the result, 90% of librarians are aware. The remaining 10 % are not available. Awareness response is more than lack of awareness.

Purpose of AI tools in the library: Purpose of the library AI tool,Librarians are not using AI tool constantly in library. They have knowledge about AI tool but they use it according their dependency of work. The purpose of the AI tool in the libraries are given below:-

Purpose of AI tools in the library

Table 2. Purpose of AI tools in the library

Sr.No.	Purpose	100% Use	50% Use	10% Use
1	Research	✓		
4	Circulation		✓	
5	Cataloguing		✓	
6	Other work	✓		
7	Preservation	✓		
8	Alert Service		✓	
9	Translation service			✓
10	Chatbot service			✓
11	Information retrieval		✓	

Table no.2 indicates the Purpose of AI tools in the library. All Librarians (100%) have used the AI tool for research work, digital preservation, and other work. 50% of librarians have used it for Circulation, Cataloguing, Alert Service, and Information retrieval purposes. Only 10% of librarians have used it for translation service and Chatbot services.

To identify the name of AI tool used by librarians: There are numerous AI tools are available. For library purposes which tools are more used by librarian? Some of list AI tools are given below-

Table 3. AI tools in different sections of libraries.

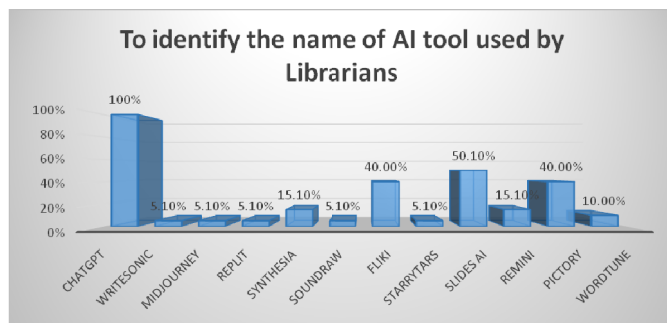| Sr.no	Name AI tool	Usage
1	ChatGpt	100%
2	Writesonic	5.10%
3	Midjourney	5.10%
4	Replit	5.10%
5	Synthesia	15.10%
6	Soundraw	5.10%
7	Fliki	40.00%
8	Starrytars	5.10%
9	Slides AI	50.10%
10	Remini	15.10%
11	Pictory	40.00%
12	Wordtune	10.00%

Figure 2. AI tools in different sections of libraries

Table No. 3 and Figure no 2 show uses of AI tools used by librarians. The ChatGpt tool has been used the most which is 100%. 50.10% of librarians have been used Slides AI tool Presentation. The Fliki and Pictory tools have equally used 40%. The Synthesia andRemini15.10%. The Writesonic, Midjourney, Replit, Soundraw, and Starrytars have 5.10%. Only 10% of librarians have used the wordtune tool.

Function of the AI tool in the library

- Using the ChatGpt tool, librarians can solve any type of query in the library. Most of the librarian (100%) has used it.
- Librarian has been used to provide an online chatbot to library users for 24/7. Users can ask their questions through the chatbot and receive the answers, without having to wait for library staff to be available.
- With the help of the Writesonic tool librarian has created the document in minimum time. They can type anything anywhere without any language barrier. Just they have to provide a single keyword or a sentence and they get a readymade paragraph.
- The librarian has used the Slides AI tool for making presentations. 50.10% of the librarian has used it. It is very easy to use just go to the site www.slideai.io and follow the few instructions PPT will be ready within 5-10 minutes.
- ChatGpt is also useful for the documentstranslation. With the help of the tool, librarian has provided translation services to the patrons. Process is very simple just go to the site, upload the document or type it and click the translate button. Document will be translated in few minutes.
- Midjourney tool is helpful for creating Art/ images from natural languages. Only 5.10% of librarian has used it.
- Synthesia tool is helpful for video generating/creating. Librarian has used it to create short videos or long videos for library usage and motivate to the user. Like the importance of books, library tours, Reader advisory, etc.
- Librarians can create their avatars by using the Starrytars tool. It is a helpful for virtualreference service. But unfortunately, very few (5.10%) librarian has used it.
- Wordtune tool is used for notes summarize. Due to a lack of awareness, only 10% of library staff has used it.
- Librarian has provided following activities with the help of AI tool like library days, book club, orientation etc.
- They have also used it for cataloguing, searching, information retrieval, collection development, and book recommendation.

Rather than the above AI tools following some AI tools are also useful for email purposes like YAMM, Remail, Botowski, Mailr, Writemail, Flowrite, Smartwriter, and Hubspot.

Conclusion and Recommendation

Maximum librarians are aware about the AI tool. They use it for research and library work.Maximum librarians are using Chatgpt, but they should use also different types AI tools like Writesonic, Midjourney, Replit, Synthesia, Soundraw, Fliki, Starrytars, Remini, Pictory etc. Librarians are used the tool for digital preservation. Maximum librarians are satisfied about the tool but some librarians are not satisfied due to technical issues, psychological issues, etc.All tools have their own uses, only the librarian needs to first learn it, use it and then apply it. Researchers are not claiming to use only a specific tools in the library, rather they are suggesting that all the tools should be used in the library. It will be save the time and readers and staff also be satisfied.

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