



ARTIFICIAL INTELLIGENCE: IMPACT ON LIBRARIANSHIP

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Abstract- In the paper discussed about Artificial intelligence (AI) and AI tools, nature of AI tools and its impact on library professionals. Artificial intelligence is powerful emerging technology in the world of ICT. This is based Human brain and machine compatibility science. Librarian is also a part of this ICT world. Artificial intelligence is based on information gathering, processing, archiving, retrieval and reuse technology. There are lots of advantages and disadvantages of AI, but it's challenging to every profession to accept. In the age of globalization, civilization and modernization AI is a necessary who focused to achieve a growth in their respective profession. AI and its tools have undoubtedly had an impact on the field of libraries, but it might be difficult for professionals in general to utilize AI and its tools in a moral way when educating. The role of library professionals in the field of artificial intelligence is to be knowledgeable about the ways in which technology is applied in the educational system and to take the initiative to raise ethical awareness among library patrons, staff, and the wider education sector.

Keywords – Artificial Intelligence, AI tools, library professionals

Introduction – Conference held at New Delhi on Global Partnership on Artificial Intelligence (GPAI) on December 2023 for science, industry, civil society, government, international organizations and **academic development** to foster international cooperation on Ai related activities. The international leadership of India and the Indian tech involvement was the main topic of this conference. Government of India launched INDIANai portal to enhance GDP, competencies, productivity and ICT based sustainable development of India. Government of India has encouraged AI technology with highly futurological way. India took part in the AI business with innovative, encouraging, and global business concepts related to social governance, transportation, security, transparency, and challenges. As per experts of this field are comments on AI technology that it is really amazing as well as dangerous for human beings. It is useful to them where some barrier in the success of their professional activities. Professionals use AI tools to overcome their problem in their respective areas. Librarian role is as information manager in the field of library. Library profession goes through variety of challenges like automation, digitalization and ICT based information services. Professionals in libraries constantly embrace new challenges in order to thrive in their service-oriented fields. Library services are significant in the context of education for improving the knowledge of learners in what they are studying. Emerging trends of use of AI technology in education is really challenging to all educational stream holders. The appropriate use of AI can improve the future for younger people; otherwise, it will just become a lazy tool for society. Prior to approval of AI utilization of tools for individuals to comprehend both the advantages and the drawbacks of AI, a program for literacy has to be established throughout all professional and educational domains. Preventing future damages and negative effects on societal circumstances can be beneficial.

What is Artificial intelligence ? - Artificial intelligence, or AI, is technology that enables computers and machines to simulate human intelligence and problem-solving capabilities. Algorithms of human logic based on memory, communication, problem-solving planning, and cognitive abilities comprise artificial intelligence. Open Ai Chat GPT- one of the most powerful open Ai it is new version called GPT 4, advanced system producing safer and more useful response. Now it helps to image related questions. It helpful to summarize to give some tricks help in processes gives a difficult situation in simple steps.

AI Users And Nature of AI Tools- government sectors, private sectors, industrialists, farmers, hospitals, schools, colleges, and educators. , all types of professionals e.g. lawyers, teachers, students , engineers, doctors, pathologists, AI tools helps provide information on variety of activities, programs, guideline to perform task, study reports of subject and issue, data analysis with predictions , suggestions on any query, algorithms of any activity, math's solutions, language translation , reduce repetition of work. AI provides information in form of Solution and suggestion of human issues.AI technology very beneficial to handicapped, blind students, old peoples and such care takers agencies.

Types of AI tools:-

- **Information only-** These AI techniques are helpful for locating information in the form of query answers. AI Tools e.g Chat GPT, replica, jasper, uchat, sudowrite, copy. Ai and writesonic
- **Image and information-** These tools design visuals based on given data or information.. AI Tools e.g DALL-E, DALL-E 2, Google's Imagen, Stable Diffusion, Make-A-Scene by Meta AI, Craivon, Midjourney etc.
- **Music-** aids in creating music or a song according to a given poem or useful word structure. AI tools e.g. Amper Music, Aiva, Amadeus Code, Google's Magenta, Ecrett Music, Humtap, Boomy, Melodrive, etc.
- **Software/ Code design program-** These tools aid in the creation of code according to specified data. Incredibly beneficial to coding techniques, website design and programs. AI tools e. g. GitHub's CoPilot, Tabnine, DeepCode, Intellicode by Microsoft, Replit's Ghostwriter, Ponicode, SourceAI, AI21Labs' Studio and Amazon's Code Whisperer , openAI Codex, etc.
- **Audio-**these tools helpful algorithms to enhance, manipulate, or optimize audio content. These tools can perform tasks such as audio editing, noise reduction, voice enhancement, auto-tuning, and much more. AI tools e.g. Google TTA LaMDA and Bard, Tt fad, Microsoft Cortana, Samsung Bixby, IBM Watson Assistant, Mycroft, amazon alexa, facebook Wit.ai etc.
- **Designer logo-** Using a variety of styles and fonts, these tools assist in creating a logo based on business facts. AI tools e.g. Looka Logo Maker, DesignEVO, Wix Logo Maker, LogoAI, Designs.AI Hatchful Logo Maker (by Shopify), etc.

Use of AI tools in Library environment –

- **Authentic Information-** A librarian's role in the rapidly developing field of artificial intelligence technology is to help students use AI tools for their study. A librarian's advisory role aids students in expanding their understanding of real information and artificial intelligence capabilities. Artificial intelligence (AI) techniques enable the rapid retrieval and presentation of fraudulent material to users. However, a librarian can advise users and confirm its legitimacy and dependability.
- **Language barrier –** AI technologies for language translation allow one to access their expertise for writing, speaking, and listening in multiple languages. Using these AI solutions, library personnel can assist users in providing content in one language to another language for academic purposes.. E.g. Bhashini AI, QuillBot.
- **Less time-** Activities like book circulation are a frequent occurrence in library departments. AI solutions are useful for avoiding laborious tasks. For example, face recognition software can give a direct user record and speed up work completion.
- **Cost effectiveness:** A persistent problem in the library department is the absence of sufficient and skilled staff. Libraries have a number of issues, including inadequate staffing, security concerns, and a shortage of qualified personnel. Use of AI tools in library can be overcome labor issues of library which may be cost effective.
- **Real-time assistance-** Various online platforms use this application to satisfy users by providing chat assistance in real time. e.g. alexa, The college library website can answer online visitors' with a real-

time chat feature like AI Alexa tool. Professionals working in libraries can utilize ChatGPT to intelligently confirm the validity of information requests and concerns about professional growth.

- **Reduce repetition:-** AI tools helps reduce day to day activities in less time. e.g. users face recognizing AI tools helps to know presently status in library in a week. Library professional can use AI tools to know any users reading habit and interest to satisfy users. In library with AI tools like Face recognition technique or scanning technology he or she visited shelving area of books can helpful understand the user behavior, interest in subjects of user.
- **Job opportunities-** With the use of new AI tools, job prospects based on developing concerns in the library profession and library utilization can be addressed.
- **Security –** Artificial Intelligence approaches can be used to overcome security issues in libraries. AI systems have the ability to record suspicious movement or access, which could be helpful in warning librarians about safe usage of library resources.

Disadvantages of AI -

Deep fake - It is quite difficult for anyone to recognize deep fake and photo morphing content. One potential limitation of AI techniques could be their inability to readily identify information authenticity. Stronger and more secure in order to maintain control and recognize its authenticity. Government needs to be built on the intelligent use of innovation and genuine methods.

Security – Information on patents and IPRs may be misused by AI developers. Another problem is that some AI creators in society can manipulate and propagate damaging content through twisted and biased information.

Quality testing – testing the quality and authenticity of information produced by AI tools is also very difficult for everyone. Prior to approving the usage of AI tools Additional elements that assess the reliability and accuracy of the knowledge generated must also be included.

Gender biases- If gender-related data is twisted in a prejudiced manner, it will be detrimental to everyone and have a negative effect on society. Gender difficulties will arise from biased AI material.

Illegal content – Freedom of AI production and use may result in the generation of illegal knowledge, and if a person or community is influenced by such information, it might be extremely harmful for society at large to learn about such a group's or community's mentality and its effects.

Subscription based -Numerous AI technologies are offered as part of yearly or monthly subscription packages. Whether they purchase it individually or professionally, not everyone has the funds to do it at the appropriate time.

Conclusion- If humans utilize artificial intelligence technology in intellectual manners, it might be a gift from God. It may be as harmful as a bomb and an attack on human intelligence if humans utilize it unfairly. Every country must set an example for the ethical, open, honest, welfare-promoting, and universally communicative use and development of AI. The successful operation of artificial intelligence technology as a local to global platform occurs when all government parties are dedicated to the ethical value of promoting human wellbeing through intelligence. The purpose of librarians in an AI environment is to counsel and guide users in an ethical manner, therefore the impact of AI on libraries might be quite positive.

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