"Viksit Bharat 2047: Holistic and Sustainable Development through the Integration of Mental Health, Yoga, Sports, Economics, Indian Knowledge Systems and Artificial Intelligence"

"विकसित भारत २०४७: मानसिक आरोग्य, योग, क्रीडा, अर्थशास्त्र, भारतीय ज्ञानपरंपरा व कृत्रिम बुद्धिमत्ता यांच्या समन्वयातून सर्वांगीण व शाश्वत विकास"





Edition: 1
ISBN: 978-81-998752-0-3

Published By
ARYA NATIONAL PUBLICATION
B.kalyan, Dist. Bidar (KS) 585327
aryapublicationbk@gmail.com

Edition: 1

ISBN: 978-81-998752-0-3

VIKSIT BHARAT 2047: INTEGRATING MENTAL HEALTH, YOGA, SPORTS AND AI FOR SUSTAINABLE GROWTH

(विकसित भारत २०४७: मानसिक आरोग्य, योग, क्रीडा व कृत्रिम बुद्धिमत्ता यांचा समन्वय)



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Publish by
Principal,
Rural Education Society's
Mahatma Phule Nutan Mahavidyalaya, Mirajgaon
Tal. Karjat, Dist. Ahmednagar – 413201 (MS)
Email: 650mpnm@gmail.com
Website: www.resmirajgaon.in



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Edition: 1 ISBN: 978-81-998752-0-3

Use of AI in Research: Opportunities and Challenges

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Abstract: Artificial intelligence is a technology that uses computers and machines to perform different tasks that require human intelligence. This technology performs various tasks assigned to it. AI is dominating the present world, as it is extremely useful in diverse domains including healthcare, media, education, commerce, banking, finance, and agriculture. It helps to increase efficiency by saving time and providing numerous services. We use AI almost every day through its devices to meet our daily needs. Siri, Alexa and Google are well-known AI platforms used to get quick results. AI is accepted worldwide. It provides accurate and efficient results. It assists us in providing the essential data that is required to make appropriate decisions. Research is an important learning process. It is a very systematic and scientific way of learning. AI assists in doing research. It enhances our understanding and updates our knowledge by providing opportunities for future developments.AI has changes the research dimensions and is used globally because of its creative and supportive capabilities. Understanding opportunities and challenges of AI in research is the need of the present times to make the research more comprehensive and useful for society.

Keywords: Artificial intelligence, diverse domains, AI platforms, data, research, supportive capabilities

Introduction: Research is a systematic and scientific way of learning. It is a journey from known to unknown. Research is a careful investigation to explore new facts. Searching for the basic information is the first step of the research process. Research is a sign of human progress. The research and development department is the most important department because it invents new avenues for future progress and expansion. In higher education, research plays a vital role; therefore, various agencies and the government are promoting research to become more efficient and advanced. AI is widely used because of its scientific experimenting and comparing abilities. AI is assisting the researchers in many ways by fulfilling their requirements. The role of AI is that of an omniscient agent, which knows all the needs of the researchers and provide them with the most needed problem-solving solutions. Research offers various opportunities, but it has certain challenges to face.

Objectives of the Study: This research paper aims to investigate the importance of AI in research, and therefore, the following are the objectives:

1. To examine the role of AI and the reasons for its emergence.
2. To investigate different AI tools used in research.
3. To understand the challenges and opportunities of AI in research.
4. Ethical considerations in research

Research Methodology: It is qualitative research. It adopts a descriptive design. It tries to explore and describe diverse opportunities and challenges of using AI in research. The present research paper tries to explore the importance of AI for researchers.

AI in Research and Opportunities: Technology and technological equipment assist the researcher. Learning AI tools is necessary for easy access to essential information for research. AI is the master key to unlock research opportunities. It has changed the face of modern research. AI supports researchers in recognizing and exploring all the stages of research. AI

Edition: 1 ISBN: 978-81-998752-0-3

tools reduce errors and provide accurate and comprehensive data. The creative support of AI helps the researchers in many ways. It shows that AI provides opportunities for researchers to complete their research satisfactorily.

AI Provides a Comprehensive Review of the Literature:

The accessibility of a review of the literature is a significant necessity in research. It gives the researcher complete information about the importance, challenges and opportunities in the research area. The widespread availability of the review of the literature helps the researcher think, modify and finalize the research topic. The availability of digital content and its easy access in the form of books, articles, journals, and research papers provides technical support to the investigator.

Use of AI in Data Collection: AI is a very notable and useful tool for data collection. It helps researchers collect data in large quantities. The availability and accessibility of data from various resources help to improve the quality of research.

Use of AI-Enabled Chatbots in Research: AI-enabled chatbots assist the researcher in gathering information in a more structured manner. The formation of questionnaires, reports, and combining and synthesizing information becomes easy. AI chatbots prove to be efficient, accurate, and reliable. These chatbots help to reduce errors. The different features of chatbots make the research process interactive, faster and more accurate.

Global Relevance of AI in Research: AI proves to be a significant global force in shaping research. The research reaches to the global platform because of the AI. It gives opportunities to the researchers worldwide to review and study the available research outcomes. It provides opportunities to enhance international collaborations to promote research activities across the world. The sharing of global knowledge to solve global challenges has become possible.

AI and Research Efficiency: AI enhances the research understanding across all disciplines. It assists researchers in finalizing research work by providing advanced hints for selecting and finalizing the research topic and by providing updated and necessary information required for the research. AI helps to make the research more accurate and reliable. The different tools of AI help to analyze and interpret the data efficiently. By promoting creative and critical thinking.

AI in Research and Challenges: No doubt, AI assists in research by providing information, knowledge and advanced tools to make the research journey smooth, interesting and useful. Certain limitations and challenges restrict the use of AI in research. These challenges are as follows:

Misuse of Available Data: The available online data on the research is misused by many researchers to finalise and complete their research work. Such research lacks authenticity. Even the personal data available on the internet is used by researchers without their consent, and it is a violation of privacy.

Reliability of Online Data: All the data available on the internet is not reliable and accurate. It needs to be cross-checked and evaluated to know the results. Many researchers get data with the help of AI tools without considering the reliability and authenticity of data, and it creates a problem for them in their research.

Technology Dependency: It hampers the thinking process. The researchers depend on the use of AI and try to explore information suggested by AI. The tendency to copy and paste is increased because of the use of AI, as researchers get quick information and modify it using AI. As a result, most of the research paper lacks its authenticity. Such research work is just like

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gathering the information and completing the research without thinking and exploring something new and innovative. Such research is of no use. This technology dependency hampers the creativity of researchers.

Research Ethics: Following the research ethics is the responsibility of the researcher. Many researchers copy and modify the material. It is against the research ethics. It has become a common practice for researchers to modify and paraphrase the available online content and publish it as their research. It is against the research ethics. To stop this practice, plagiarism tools like Drill bit are used by the universities to determine the percentage of plagiarism. The government and universities are taking steps to maintain the quality of research. Therefore, universities have made it compulsory for researchers to submit the plagiarism report of their theses and dissertations before the final submission. It shows that, despite the benefits of AI, critical thinking and personal interpretation play a vital role in research.

Major Finding:

1. It has been found that AI assists the researchers in many ways by providing essential information and data needed for research.
2. AI tools are used worldwide as these tools assist the researchers from the first step up to the last step, including major findings and conclusions of the research.
3. It has been noted that AI tools have certain limitations. The data and information available online are not entirely authentic and complete.
4. AI provides various sources useful for research, but the overuse of AI hampers the critical thinking capacity of the researchers.
5. Digital data has certain limitations. Plagiarism tools detect the copied information, and research work can be rejected.

Conclusion: AI is, no doubt, very useful in research. It provides various tools that help us understand and prepare the research work. AI gives research insight, offers literature reviews and necessary data, and promotes research. The quality of the data and its reliability are the challenging concerns for the research. Critical thinking ability and self-interpretation are important factors in research. The plagiarism tools have also led to certain restrictions on the use of AI for research. Research ethics is a challenging concern in modern research. It shows that though AI helps, it has certain limitations and challenges in research.

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