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Integration of AI in the NEP 2020
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Abstract:
The purpose of National Education Policy is to realize the aspirations of a 21st century self-reliant India and to make India a vibrant knowledge hub through equity, integration, and excellence in education. This present study aims to explore how Artificial Intelligence can empower NEP 2020 in achieving its vision of a more flexible and technology driven education system. It discusses various Artificial Intelligence gadgets and their tools in application to education in the core objectives of NEP 2020. Moreover, the present study talked about the challenges and opportunities in Indian colleges and universities.

Keywords: AI, NEP 2020, education, techno-savvy generation.

Introuction:
The National Education Policy (NEP) 2020 emphasizes the importance of integrating technology, including artificial Intelligence, into the education system to enhance learning outcomes, improve accessibility, and prepare students for the challenges of the 21st century. The whole world is on the threshold of a nano-technological change. According to change, in the education policy it has drafted applications of flexibility, creativity, solutions and inclusiveness from kindergarten school to postgraduate education. AI requires planning about infrastructure, curriculum and continuous monitoring to the goals and principles outlined in the National Education Policy. The role of AI in education is dynamic, and its integration may evolve over time as technology advances and the educational needs change respectively. This tool prepares students for their skill development and modern employment market. The concept of AI is a transformative force in education. Its sole aim is the overall improvement of the education system which is the cornerstone of the NEP. The policy encourages the development of AI based educational tools, such as adaptive learning systems, intelligent tutoring systems, and natural language processing based tools. NEP 2020 emphasizes the importance of AI literacy, which includes understanding the basics of AI, its applications on society. The policy recommends that teachers be trained to effectively integrate AI based tools and technologies into their teaching practices. NEP 2020 highlights the need to incorporate ethics and responsible AI use into the curriculum to ensure that

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students understand the potential consequences of AI on society.

The NEP 2020 has taken very serious initiatives of the role of technology in the field of education and its applications such as e-learning, online resources and the use of digital tools. In the 21st century the National Education Policy introduces the role of AI in the current education system. This education policy prioritizes the use of digital platforms for the development of teachers and students for the teaching and learning. AI provides the boosting energy for the learning experiences, catering to students' needs and capabilities. Through the AI platforms, it can assess the students' progress; identify areas of strength and weaknesses. The professional development of both teachers and students is an important part of the NEP. AI plays an important role in imparting education with holistic approach and content from different fields. It assumes that the application of AI tools in education will help in enhancing the educational skills of teachers as well as developing learning resources. However, AI gives different directions and strategies to the teachers for their personal development. It is hoped that AI will help to design curriculum, research methodology and overall educational strategy. These strategies and methodologies can bring abstract concepts to life, making learning more engaging and practical. Therefore, the same experiences align with the NEP's vision of promoting experiential learning and a holistic approach to education.

Applications of AI in Education:
1. Adaptive Learning Platforms: Platforms that adjust their difficulty level and content to match individual students' progress.
2. Virtual Learning Environments: Immersive, interactive environments that simulate real-world experiences.
3. Natural Language Processing: AI-powered tools that can understand and respond to human language.
4. Predictive Analytics: AI-powered systems that can predict student performance and identify areas where they need extra support.

Challenges and Limitations:
1. Bias and Fairness: Ensuring that AI systems are free from bias and treat all students fairly.
2. Data Privacy: Protecting sensitive student data and ensuring that it is used ethically.
3. Teacher Training: Ensuring that teachers have the skills and knowledge to effectively integrate AI into their teaching practices.
4. Equity and Access: Ensuring that all students have access to AI-powered educational tools and resources.

Overall, the integration of AI in education has the potential to revolutionize the way we learn, making it more effective, efficient, and enjoyable. However, it's essential to address the challenges and limitations associated with AI in education to ensure that its benefits are equitably distributed. Many students have practiced it. AI administered language learning and translation tools are helping a lot in breaking down barriers to language learning. This is a boon for the application of regional languages in technical education along with addressing the linguistic diversity in India's education system. AI can contribute to bridging educational

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gaps by providing accessible and inclusive learning solutions. Language translation services, voice recognition tools, and other AI applications can assist students with diverse needs, ensuring that education is inclusive and reaches all segments of society, as envisioned by the NEP. The NEP encourages research and innovation. AI can contribute to advancements in educational research, including studying learning patterns, and the impact of technology on education.

AI in the NEP-2020 reflects a paradigm move towards adaptive technology to create a more inclusive, skill-oriented, and efficient education system in India. As the formation of AI in education continues to evolve, it has all the potential to significantly contribute to achieving the objectives set by the NEP and most importantly it will prepare the major stakeholders in the education system for a better future.

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