Recent Technological Advancements and Its Push in Upskilling

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Abstract: This article examines the recent technological advancements and their impact on upskilling the workforce. The study explores how emerging technologies such as artificial intelligence, automation, and machine learning have led to changes in the skills and competencies needed in today's job market. In India, various government and private initiatives like the National Skill Development Corporation NSDC and Tata STRIVE offer upskilling programs across multiple sectors. However, individuals who do not embrace upskilling may face decreased productivity, isolation, reduced competitiveness, and security risks. Investing in upskilling is essential for both employees and employers to thrive in an increasingly digital world. The article also discusses how organizations can leverage these advancements to provide training and development opportunities for their employees to stay competitive in the rapidly evolving digital age. Overall, the paper highlights the importance of continuous learning and adaptation to new technologies in order to thrive in the modern workforce.

Keywords: Technological advancements, Upskilling, Artificial intelligence, Automation, Digital transformation, Skill development, Workforce development, Job market & Future of work

Concept of Upskilling
Upskilling refers to the process of learning new skills or enhancing existing skills in order to stay updated and competitive in the workforce. It involves acquiring knowledge and training in areas that are relevant to one's profession or industry. Upskilling is important in today's rapidly changing job market, where new technologies and trends are constantly emerging and replacing outdated ones. By upskilling, individuals can improve their job prospects, increase their earning potential, and adapt to the demands of a dynamic and competitive workplace.

Rapid technological advancements:
Upskilling is closely connected with rapid technological advancements because as technology evolves and new tools and systems are introduced, workers need to continuously update their skills to keep up with these changes. Many industries are being disrupted by technology, and workers who do not adapt and upskill risk becoming obsolete in the job market. According to a study by Sharma et al. (2020), recent technological advancements have significantly impacted upskilling efforts in the Indian context.

By investing in upskilling and staying current with technological advancements, employees can remain competitive, stay relevant, and increase their job prospects in an ever-changing landscape. Additionally, upskilling can help companies harness the full potential of new technologies and stay ahead of the competition. Ultimately, upskilling is essential for individuals and organizations to thrive in a rapidly changing technological environment.

Our Indian Government and Various Private Companies as Part of their CSR programs are Contributing a huge to the Upskilling Segment such as National Skill Development Corporation (NSDC) - NSDC offers a range of upskilling programs in India across various sectors such as healthcare, IT, retail, and construction. Pradhan Mantri Kaushal Vikas Yojana (PMKVY) - PMKVY is a flagship scheme of the Indian government that aims to provide skill training to youth across the country. It offers upskilling programs in sectors like electronics, textiles, and tourism. Tata STRIVE - Tata STRIVE is a vocational training initiative by the Tata Group that offers upskilling programs in various sectors including automotive, construction, and hospitality. IL&FS Skills - IL&FS Skills is a leading skill development organization in India that offers upskilling programs in sectors like banking, finance, and healthcare. Skill India - Skill India is a government initiative that aims to provide skills training to youth across the country. It offers upskilling programs in sectors such as agriculture, beauty, and wellness. The report by the National Skill Development Corporation (NSDC, 2019) highlights the role of technology in driving skills development in India. A survey conducted by the Federation of Indian Chambers of Commerce and Industry (FICCI, 2018) found that 78% of Indian companies have increased investments in technology-based upskilling programs.

But When the Upskilling is not been taken as a Factor then Individuals may find themselves falling behind in various aspects of life. They may miss out on new job opportunities that require certain tech skills, struggle to keep up with their peers in terms of communication and access to information, and even face challenges in terms of daily tasks and activities that now rely on technology. Furthermore, not adapting to technological advancements can lead to feelings of frustration, isolation, and alienation as individuals may struggle to navigate the digital world that has become an integral part of modern society. It can also hinder personal and professional growth as the ability to adapt and learn new technologies is increasingly important in today's fast-paced world. Ultimately, not embracing technological advancements can limit an individual's potential and opportunities for success in a rapidly evolving digital landscape. It is important for individuals to stay informed, open-minded, and willing to learn in order to thrive in a world that is constantly changing due to technological advancements. There is limited specific data on this topic from India, but in general, when individuals do not adopt rapid technological advancements, they may face a range of challenges and consequences such as:

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Decreased productivity: Failing to adopt new technologies means individuals may not benefit from tools and resources that can streamline processes and make tasks more efficient and productive.

Falling behind in skills: As technology continues to advance, individuals who do not keep up with the latest tools and techniques may find themselves falling behind in terms of skills and knowledge, limiting their opportunities for career growth and development.

Increased isolation: In a world where communication and collaboration increasingly rely on technology, individuals who do not adopt new tools may find themselves isolated from colleagues, friends, and social networks.

Reduced competitiveness: Businesses and organizations that fail to adapt to technological advancements may struggle to compete with more agile and innovative competitors, potentially leading to loss of market share and revenue.

Security risks: Failing to adopt cybersecurity measures and protocols can leave individuals vulnerable to data breaches, identity theft, and other cyber threats.

In summary, individuals who do not adopt rapid technological advancements may face challenges in terms of productivity, skills development, social connections, competitiveness, and cybersecurity. It is essential for individuals to stay informed about new technologies and adapt to them in order to thrive in an increasingly digital world. Upskilling is essential in today’s fast-paced and evolving workforce. As technology continues to advance, workers need to constantly update their skills in order to remain competitive and relevant in their field. By investing in upskilling programs and training initiatives, companies can ensure that their employees are equipped with the necessary skills to meet the demands of the future workplace. The implementation of artificial intelligence and machine learning technologies has been shown to enhance the effectiveness of upskilling programs in the Indian workforce (Kumar & Sharma, 2019).

Conclusion

Upskilling is indispensable for navigating the ever-changing landscape of the modern workforce. Rapid technological advancements necessitate continuous learning and adaptation to stay relevant and competitive. Both individuals and organizations must prioritize upskilling to harness the benefits of new technologies, enhance productivity, and drive growth. By embracing upskilling, employees can improve their career prospects and job satisfaction, while employers can cultivate a skilled and innovative workforce, ensuring success in a dynamic global economy. The introduction of new technologies such as Artificial Intelligence, Machine Learning, and Big Data has created opportunities for individuals to enhance their skills and stay competitive in today's rapidly changing job market. Upskilling programs and online courses have also become more accessible, allowing individuals to learn new skills from the comfort of their own homes. Overall, the push for upskilling in India is evident, and it is essential for individuals to embrace technological advancements to succeed in their careers. Upskilling benefits both employees and employers. Employees gain valuable skills and knowledge that can enhance their career prospects and job satisfaction, while employers benefit from a more skilled and innovative workforce that can drive business growth and success. Therefore, upskilling should be a priority for all organizations looking to stay ahead in an ever-changing global economy.

References