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## HUMAN PROGRESS WITH DIGITAL AND TECHNOLOGICAL ADVANCEMENT

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### **Abstract:**

Our parents and grandparents often say that how much the world is changing! So, who is changing the world? What causes it to change? In this fast-paced world where, more than 2.5 thousand websites are created daily and an average of 999 new apps are published per day, with the population of humans increasing every passing moment, we need to acknowledge the fact that the introduction of new technologies has brought in a lot of changes in all fields. This major change has its own merits and demerits. We are bound to believe that it is the science and the technology achieved by us humans that has changed the entire world and altered its way of living. These alterations have greatly affected our daily life. Inarguably, it is without a doubt that the world will advance even further with the establishment of emerging technology. In a world where it is uncommon as well as unsafe for us people to entrust our personal information to other people, we, without hesitation enter those very information into our online accounts. This is an example of how the world relies on technology. Though it is very well known to us that online scams and malicious websites exist that may cause heavy damage to us using our private information, we still choose to depend on technology because we are aware of the importance it holds in our modern day life. Digital and technological changes have transformed industries and our daily life, improved connectivity and globalization encouraging worldwide collaboration and cultural exchange. This proves that mankind has evolved a lot in almost all aspects including the traditional aspects of life. This change is yet to bring about even more progress and therefore we must stand for this new revolution.

**Keywords: Emerging technology, Information, progress, advancement, connectivity, Globalization.**

### **INTRODUCTION:**

Nowadays many people say that “how we used to live and behave to survive when there was no technological invention in the world”. These days it’s hard to think a single work without technology. We can’t ignore the impact of technology on every aspects of life. There was a time when we were very physically active, but now we rely on devices to do most of our work. The changes in our behavioural patterns and adaptations that are caused by these technological advances. With technology today, we have opportunities in every fields, made the desired things easier to achieve simply by a clicking a button. Technology has made it easy for people to travel within hours to places. Life has become easier and more efficient to complete the work on daily basis. Using technology we can monitor health data and exercise targets, some smart home gadgets are used to take care of housekeeping tasks automatically. We cannot ignore the impact of technology on human’s life. Business in any field has explored in infinity because of this technology and digitalisation. Technology has given remarkable hike in communication, healthcare systems and transportation networks and off course our daily work. We no longer communicate, share



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knowledge, or organize ourselves in the same way as we did before the advent of high-speed internet, cell phones, and tablets. People from all around the world may now have real-time conversations. Like using zoom and Skype.

### **DIGITAL AND TECHNOLOGICAL ADVANCEMENT:**

Digitalization is a vast concept that shows Digital Transformation of society and the economy. It describes the change from an analogue system to knowledge and creativity characterized by digital technologies.

The rapid pace of technological advancement is truly remarkable. It is propelling us towards a future that is both exciting and uncertain. Consider the significant developments that have transformed our world. Machines are now capable of autonomous thought, information is stored in a virtual repository known as the cloud, and our homes, vehicles, and even our physical bodies are interconnected through the internet. This technological view we have now, is new and we need to promote it for our own good.

Despite the challenges and uncertainties that accompany these changes, we are adapting and finding innovative ways to collaborate, communicate, and interact with one another. The journey is indeed tough, but it intrigues us to observe the future developments that lie ahead.

The technological revolution has ushered in numerous innovations that have simplified and enhanced our lives. Remote work is now a reality, global connectivity is seamless, and access to information is instantaneous. We are indeed navigating a transformative era, and it is crucial that we embrace these changes to harness their full potential

### **HUMAN PROGRESS BEFORE DIGITALIZATION:**

If we talk about India's journey before the digital uprising then from the time of the ancient civilizations like the Indus Valley and Vedic eras to the Mughal and British rule, India has seen some serious ups and downs. We've had our share of amazing achievements, like Aryabhata's astronomical discoveries and the construction of breathtaking monuments like the TajMahal.

Life was simpler, yet vibrant, with festivals, street food, and family bonding. We may not have had smartphones, but we had our trusty landlines and snail mail. It was a different pace of life, but we made the most of it. And that's the beauty of human progress, right? Life before the internet didn't have things like Google, You Tube, eBay, social media. So we used to go out and talk to our friends and neighbor.

Few examples of how different life was before the internet

1. We had to leave house to socialize.
  2. Using Encyclopedia, library and Encarta'95 for the knowledge.
  3. Procrastination has never been easier.
  4. Before the internet, the hardcopy of the information must be printed and attached to wall or to the notice-board
  5. People used to send letters not emails.
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## **HUMAN PROGRESS WITH DIGITALIZATION:**

In this world of machines and technology there is no doubt about the progress of humans using technology and thus transforming the society into digitalization. In the field of health care technological advancement have revolutionized the health care industry. We can witness the same in major fields of:

- **Health care system:**

It is just digitalization and advancement in technology in which a patient diagnosis can be done within no time treatment and care can be started immediately. There is also progress in medical fields where it can be made easily available to the patient and his family. Telemedicine has done a great work by employing digital tools and virtual consultations. Patients no longer have to leave the comfort of their own homes to receive medical advice, medications, and follow-up care. Everyone benefits, and regular healthcare systems become less congested as a result.

- **Education system:**

In the area of education technological and digital advancement has shown a tremendous result. Learning is now not at difficult with so many videos and educational apps present. We have many examples as online courses, various multi- media tools and e learning platforms according to student's interest and requirement which can help a lot in student's life and career. Modern teaching methods are available to clear the concepts and understanding the topics. Online courses and other digital learning resources have revolutionized the classroom by creating more engaging and interactive learning environments that foster students' interest and critical thinking. Simulations and individualized learning have supported a lot in the field of teaching and learning and therefore in the field of education.

- **Innovations in Science:**

It is the science where we can see advancement and progress in advancing other concepts for the lead of a comfortable life. Inventions in the field of science i.e. in the areas of engineering, in business, the research field, in agriculture there are various development in these areas which has made the process very simple and efficient. Few examples in the field of science are: (a) sustainable agriculture (b) artificial Intelligence(c) Google maps and locations (d) Hybridization in agriculture (e) cashless Payments etc.

- **Our daily life system:**

Through the application of innovations in science and technologies humans have a different life after digital advancement not only humans but those with disabilities who are special are so much benefitted by implementation of the technology. With the advancement and digitalization they have now chance to participate fully in society and get their work done like a normal human being. These technologies encompass mobility aids, adaptive gadgets, communication tools, and sensory

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enhancements, among others. Those with impairments have an equal opportunity to participate. To create environment that are inclusive, friendly, and accommodating to a variety of needs and preferences, technology plays a significant role. Smart wheelchairs, adaptive software, assistive gadgets, accessible buildings, and transit networks are all part of this.

### **BENEFITS OF DIGITALIZATION:**

Digitalisation has both positive and negative effects. Some researchers have targeted certain business or economic process to reflect the influences of digitalisation.

Digital transformations are primarily meant to be people-oriented, to better serve and improve the quality and efficiency of life, we find it important to take stock of the impact of accelerated digital transformation on human beings and their livelihoods to better understand how humans and technologies can co-exist without being threatened. There is no doubt that the era of digitalisation promotes outstanding scientific advancements in terms of all sectors of the economy, and health care, to culture, and education as a result of the boost in AI technologies. Machines and robots are sufficiently smart to make certain informed decisions with highly minimised levels of inaccuracy. As such, human efficiency and productivity is no longer comparable with super automation platforms. The scale and intelligence of automation is also growing rapidly and advancing whilst we may not be able to say the same about the development of intelligence in humans. Nowadays computers can even diagnose situations and identify challenges that humans do not see.

### **CHALLENGES OF DIGITALIZATION ADVANCEMENT:**

The rapid advancement of technology has certainly have concerns about whether humanity can effectively cope with the changes it brings. While technology has brought about uncountable benefits and advancements in various fields, it has also introduced new challenges and complexities that can be difficult to navigate. Rate of Change has been increasing, as the complexity and power of our technology has been increasing. Atomic bombs. Petro-economics, politics and climate change. Robotics, IT, AI and cultural norms about human employment.

Some of the issues that arise from the fast pace of technological advancement can be:

- Ethical matters: Advancement and digitalization has raised ethical concerns, such as the use of artificial intelligence in decision-making, privacy concerns with the collection of personal data, and technology to be used for malicious purposes.
- Social Disturbance: Rapid technological change can disrupt industries and job markets, leading to unemployment or the need for retraining. It can also impact social interactions and relationships, as people spend more time engaging with technology rather than with each other.
- Creating Inequality: Technological advancements can widen the gap between those who have access to and can benefit from new technologies and those who do not, this leads to increased inequality.
- Environmental Impact: The rapid development and deployment of technology can have negative environmental consequences, such as increased energy consumption, electronic waste, and carbon emissions.



- **Security Fear:** As technology becomes more integrated into various aspects of society, there are concerns about cybersecurity threats, including hacking, data breaches, and other malicious activities.

Efforts are being made to address these issues through regulations, ethical guidelines, education, and other means. Ultimately, the pace of technological advancement will likely continue to accelerate, and it is essential for society to proactively address the challenges that come.

## CONCLUSION:

After throwing light on the human progress with digital and technological advancement we have observed and have explored the digital transformation and its implications on human digital living and digital thinking, which shows human progress in digitalisation. There is a serious balance that we must make and put into practice. We tend to use digital platforms and devices as the external storage of information rather than memorising them by ourselves, side effects of increasing dependency on smart technologies are emerging under the spotlight, from cognition dysfunction, addiction disorders to mental health issues like anxiety, depression and self-harm and suicidal behaviours. Thinking of full automation replacing humans, the match between humanity and technology, the problematic privacy and personalisation paradox, depression and mental health concerns due to digital and media usage, and the growing In future, when the world is completely digitalised, it is concerning as our discoveries so far indicate that humans would find it difficult to remain unaffected by the increasing negative aspects of digitalisation.

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