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How Technology will Change Our Lives in Ten Years

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Abstract: Aim: An analysis of how the already mind-blowing world of tech is going to evolve not just itself but everyone's lives in the next decade. Background: Technology has been an important part of our daily lives from centuries back with the invention of The Wheel; humans have relied on tech in an effort to make their lives easier. Data Source: A Search of published evidence from using keywords (as outlined below) was undertaken from which relevant sources were selected to build an informed discussion.
Keywords: Technology, Disease Prevention, Autonomous Driving, Efficiency, Routine Tasks.

I. INTRODUCTION

The simplest form of technology is the development and use of basic tools. The prehistoric invention of shaped stone tools followed by the discovery of how to control fire increased sources of food. The later Neolithic Revolution extended this, and quadrupled the sustenance available from a territory. The invention of the wheel helped humans to travel in and control their environment.
Technology is constantly advancing and changing, sometimes at a shocking pace. While we often think we know what the future holds we are treated to mind blowing advances in certain areas of tech we didn't know existed.
In 2005, futurist Ray Kurzweil predicted that the future of technology would mainly consist of an overlapping "GNR Revolution" of genetics, nanotechnology and robotics, with robotics being the most important of the three.
Some believe that within the next 10 years, humans will discover nanobot technology, while others believe that we are centuries away from its invention. It is believed by futurists that nanobot technology will allow humans to 'manipulate matter at the molecular and atomic scale.' This discovery could pave the way for many scientific and medical advancements, such as curing new diseases, or inventing new, more efficient technology. It is also believed that nanobots could be injected or otherwise inserted inside the human body, and replace certain parts, keeping humans healthy for an incredibly long amount of time, or combating organ failure to a degree.

II. DISCUSSION

A. The Tomorrow

1) E-voting: India is the largest democracy in the world. Hundreds of Millions of people head to their nearest voting station to cast a vote. The present dry run of smartphone-based e-voting is using artificial intelligence and Blockchain technologies to make it more secure. A three-factor authentication will be implemented with name Matching with Aadhaar, Liveness Detection of Individual, and Image Matching.

a) Some people are not voting as they can't come to of homes due to several reasons such as caring for elderly or sick people. For them, the postal ballot is not allowed as of now. So, e-voting is very beneficial for them. This will increase voter turnout.

b) Easier for elderly people to cast a vote from their home.

c) Block chain technology guarantees anonymity and maintains transparency.

2) E- Learning: COVID-19 pandemic resulted in the rise of E-learning. This situation led to debates on whether e-learning is a good alternative to classroom learning.

a) A few girl children and differently-abled children are not attending schools/colleges due to lack of facilities there. E-learning is a boon for them.

b) E-learning gives flexibility. Even if we miss any class, we can listen to it later.

c) Through e-learning, teachers can explain the concepts using animations or other technologies.

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3) *Artificial Intelligence:* Artificial intelligence has changed the world so much and will bring many more changes in the coming days. AI is already integrated into our daily lives. If we take the example, many of us are using virtual assistants such as Google Assistant, Alexa, Siri etc to assist us. It is predicted that in the near future, AI will be more integrated into our daily lives and the coming innovations that are based on AI will transform the world for good.

a) It improves our productivity by assisting us in many ways and saving plenty of time by taking care of monotonous tasks at home also at workplaces. For example, now we can schedule the robotic vacuum cleaner to clean the floor and thereby we can save some time and energy.

b) Websites are providing personalized experience using AI. For example, YouTube provides personalized suggestions based on what we watch. In future, more personalized services will come including personalized healthcare services.

c) With the advancements AI is bringing, there will be more data privacy and security issues. And laws to deal with the same will come. Ethical concerns will also arise.

B. The Future

1) *Disease Prevention:* Watches and wearable devices are currently on the market that can monitor our heart rate and how many calories we burn when exercising. Tomorrow's software will allow wearable tech to monitor blood sugar levels, oxygen consumption and even changes in hormone levels. Your watch can tell you when your stress levels are rising. When you need to eat and what would be the best food choice at that time for optimal health. Today we are getting much better at curing cancer, in 10 years. Our wearable tech may actually be able to help prevent it in the first place.

2) *Minimal Drive Time:* We are already seeing cars that can park themselves and self-driving cars are definitely on their way, but current technological advancements are already decreasing our need to even use cars in the first place. As it is, features like video conference and cloud computing are allowing more and more businesses to offer their employees. The freedom to work remotely, not to mention hire someone from India as easily as someone from Indiana. Not only does this cut down on the amount of time spend commuting every day. But it also cuts down significantly on the number of people that even need cars in the first place. Public transportation is also making rapid advances as are car sharing services and even hire services like Uber and Lyft. The time may come when individuals won't even need driver's licenses anymore because they either don't drive at all or their car drives itself. With less cars on the road – and possibly even less roads – this will also lead to fresher air and less pollutants in the atmosphere. This may also lead more people to get outdoors and enjoy the fresh air. Fewer cars will almost also lead the trend away from giant shopping centers and mega marts in favor of smaller. Local stores within walking distance – which will also have an increased benefit to overall health.

3) *Less Time Spent on Routine Tasks:* 20 years ago, when you went to the grocery store, a checker had to remove each article from your basket. And manually ring in the price of each item into a cash register. Today, checkers simply run a bar code over a scanner – if there is even a checker at all. Checking out has become so easy. Many people opt for a self-checkout rather than waiting in line to have someone do it for them. In the future, there will be no checkout lines at all, as scanners will simply scan any items you leave. The store with and automatically debit your financial account. Many items will actually be ordered by your appliances and simply delivered to your home. Most likely via a drone or even a robot. Even your visit to the doctor will start off with a drone or robot checking your vitals. Hormone levels and perform a number of baseline tests, which will include accessing the information from your personal health monitor.

III. CONCLUSION

All in all technological advancements are moving towards automation to take over our most mundane daily tasks, as well as the most mundane tasks in business, science and medicine. Artificial Intelligence has already improved many industries and it has the potential to revolutionize all sectors by reducing the monotonous work, improving the efficiency of employees and also by quick decision making possibilities. As AI will be more integrated into our lives, we need to keep it on the right path by discussing and taking the right steps on ethical and security concerns. In the end you can't deny that whatever tech we see in the coming decades will sure be exciting.

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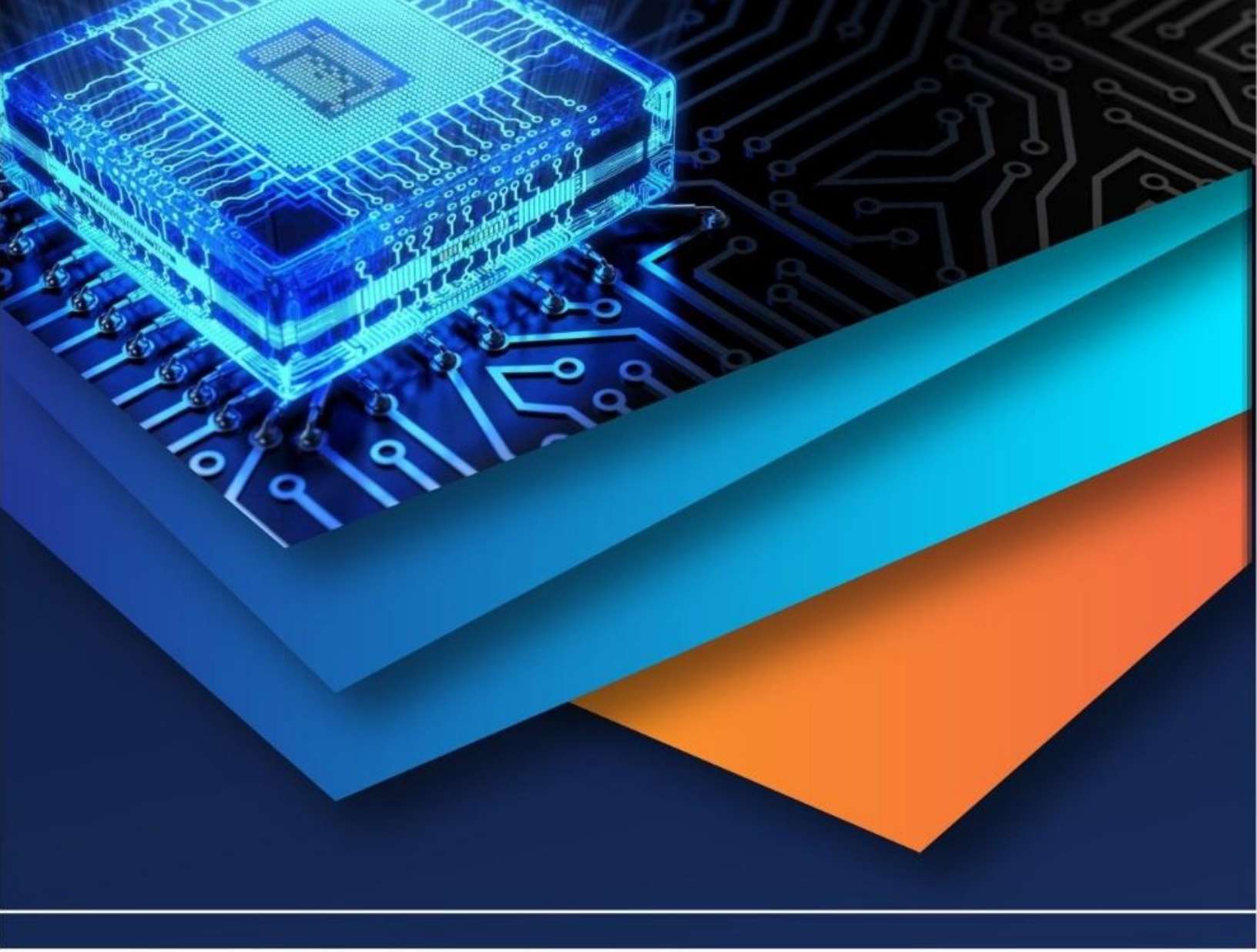

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