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Future Technology Needs for India-2047

Technology is when scientific knowledge is applied to make something so that anyone can use it to make their lives simpler. Once Moore's Law predicted that "the number of transistors on a microchip would double every two years" which would make computer technology cheaper and more capable, but now it's slowly fading away as we are changing how we think about everything. Future technologies can bring wonders for a nation or the world and for a country like India where we are majorly focused on developing new science, which implies our need for new technology will increase as well.

There are a lot of fields where the technology could evolve, hence let's discuss what should be our vision for India-2047. We all know there is a major issue that directly affects everyone, the environment we live in. Energy production, water management, and farming need relatively more attention as compared to other sectors, as we previously discussed. Upcoming studies and technologies suggest that brilliant minds are constantly at work so that human society as a whole can become more efficient. And our nation will need many specially designed solutions too. Wouldn't it be great to have robots do the daily chores? Have cars that produce no bi-products? Have a civilization that has transcended, to travel beyond earth? there are so many fields where we can make our feet stick. Taking about education, one of the most influential topics that make humans better in every way, newer ways of learning- teaching through technology can produce remarkable results in future as we say kids are kings of the future. Game-based learning where children feel more involved can change the whole situation, we should be looking more into the way we reach young minds. Carbon negativity and better fuel/energy sources to power everything 24x7 we make as most almost everything will be powered in the future, this will provide better and faster ways of doing everything. A major cause for most environmental problems is increasing global warming majorly caused by CO2. A future where we do not destroy everything with heat would necessarily mean to have zero increase in carbon in the air. Developing fusion reactors may solve a lot of problems to power cities but we still need to look for ways we handle burning fossil fuels and industrial power use, and transportation of this huge amount of

energy. Moving on to medical sciences we will see a lot more focus as 2020 was a major pandemic that nearing stopped humans in their tracks, currently studied technology- Gene therapy and many other vaccines will extend human life and should be good for the common man to afford medicine, India should be able to fund these developments. Space exploration is a major step in human history to go above and beyond and find new unexplored places to find resources to meet new demands, India is one of the top 5 to work in the field of space technologies we hope to make progress of our own to excel in this field. We are mostly aware of how Elon Musk has done wonders in such a small period, very inspiring. Talking of AI- Artificial Intelligence we should expect everything to be powered by it and make everything, by 2047 this would evolve in a lot of aspects to power most of the electronics. And last but not the least the worry of not having a job to earn and fund daily lives, everyone has taught about it but looking at the bigger picture there is so much to do there will always be the need for human involvement, there's a lot of opportunities for an educated person.

Concluding, the future holds a lot of potential for India, which should cheer everyone to look up and be confident. Humans are very needy and to run a whole nation, we need more technological advancements. By 2047 I would like to see India be at the forefront of evolving technologies, providing everyone brilliant ways to contribute and grow as a whole. Eliminating boundaries and problems of so many people