Future of Automobile Industry

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It is not for the first time that we are seeing electric vehicles running on the roads. The technology is not new for us. It was tried and tested decades ago. Then why is the electric vehicle market emerging exponentially in recent days? Well, all of us may be aware of this but many of us are not. Today is not just an era of electric vehicles but also of technologies which are emerging along with it. Well, driverless cars or autonomous vehicles are not a new thing too. Many of the major companies like GM, Google, Tesla etc. have tested their vehicles a decade before. The revolution of the telecom industry, artificial intelligence (AI), connectivity, internet of things (IoT) etc. have brought up application of these technologies one step ahead. In many cases the concepts are similar however the technology is upgraded in a much better way. Still there are many technologies which have a huge potential to grow in the future, such as artificial intelligence (AI).

Talking to someone at a distance of some kilometres was also a dream which became reality after invention of the cell phones and the satellite communication technologies. In a similar way the day will come when artificial intelligence will grow at its peak. The rolling of AI robots is not a faraway dream. AI is that powerful tool that can bring fully driverless vehicles on the road and we will see within the upcoming 10 to 15 years. As per the TOI report, in 2019, in road accidents around 1.5 lakh lives were lost. Interconnectivity, GPS or LPS, AI etc. will assist the driver to protect against the accidents. For example, today we see an alarm by vehicle when we do not wear a seat belt or the door is open. In future the vehicle will understand the drivers' emotions and automatically will switch to the autopilot mode. For example, it will sense sleepiness, anger, hyper-excitement etc. and will adjust the vehicle speed, detect

the edges and turns of the road, other vehicles and its speed, other obstacles in its path using GPS, LPS and navigation systems and will prevent mis happenings. To develop such things a vehicle needs more and more data, vehicle interconnectivity to record the behaviour, regular paths, emergency locations etc. for which it needs storage space where the AI cloud storage technology will play a big role. We will not wonder if a driver suddenly had a medical emergency, for example, he/she had a heart attack, the vehicle will automatically detect unanimous behaviour and will switch to the autopilot mode and bring its owner to the nearest hospital by beeping the emergency lights and sounds outside the hospital. Similarly, it will notify regarding the low fuel/battery scenario and automatically suggest nearest fuel/charging station. The digital revolution will go on improving and our next generation will adapt to it too quickly as we can see that our previous generation is still facing an issue to handle the computer or smartphones, however our generation got used to it and it is no more surprising for us.

The discussed technologies are relatively new to us and has a long way to go to grow at its full potential. A special kind of infrastructure is needed to make this possible. For example, smart highways using IoT and AI, charging stations with minimal charging time and longer range etc. The first innovation era always comes at higher cost and as the technology penetrates over the period of time the things will get cheaper. Electric vehicles are the future of the automobile industry and the research has shown that electric cars are better for the environment. The dream of breathing in fresh air will become reality over a period of time. The only thing is that most of the charging stations should use renewable energies like solar, wind etc. instead of coal produced electric energy. The E-waste management will become a critical issue if we fail to dispose of the e waste using better disposal ways. The future is great, what we need is better planning today.