

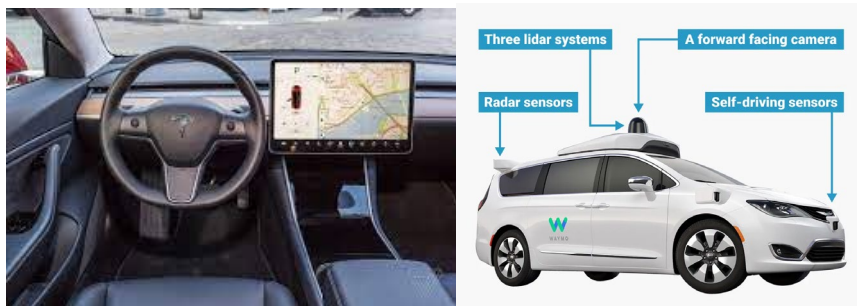
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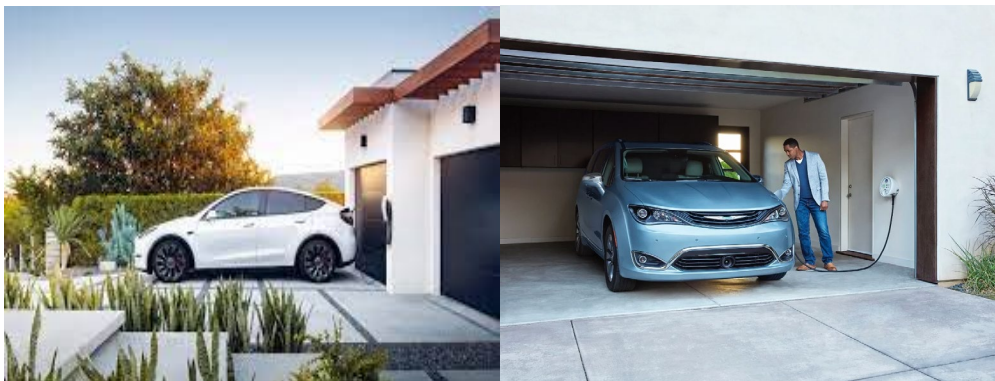
**Research Paper COVA**

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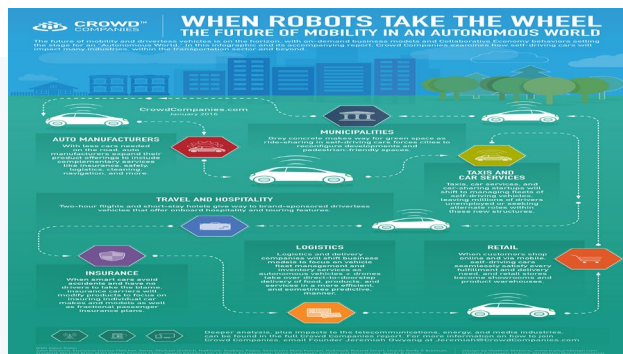
Automobiles have been around for centuries. People have been driving them around for a long time, there are various makes and models. However, recently, self-driving automobiles have come into play. This research examines autonomous driving automobiles and their links with people that like to drive with self-driving automobiles and non-self-driving automobiles. The first car to be invented was the three-wheeled motor car called the “ motorwagen” in 1886. People with non-self driving cars have been teaching their kids how to drive with the non-self-driving cars with the self-driving cars parents will not have to because they can just put it in the GPS. Self-driving cars may be exciting for the moment, but it is nothing like being able to shift gears while cruising down the highway. When in a non-self-driving car the driver can decide to either use the technology to tell them to take a faster route, but it's not a faster route. In today's time, self-driving automobiles are becoming more popular. There are numerous companies that have begun to sell self-driving automobiles. Some of those companies include the following: Tesla, Waymo, Pony.ai, Volvo, and Voyage. Their popularity is due to the automobiles having the ability to assist those with disabilities (i.e. the blind,) and allow them their independence to drive on the road It would help the younger generations as well.



Well as per the source from Coalition for Future Mobility “Government data identifies driver behavior or error as a factor on 94 percent of crashes, and self-driving vehicles can help reduce driver error.” If we had more self-driving cars for the younger generation it would help prevent the cars from the crash and make the roads safer. But the problem with that is that they would have to lower the prices for the self-driving cars. The average cost to get a self-driving car is seventy-five thousand and that car is from Google. Tesla has raised the price of its self-driving option in the car to ten-thousand and the Tesla cost around thirty-five thousand to one hundred twenty-four Thousand. Having said that, the self-driving car is that it does not take gas, it runs on electricity, and it would help the environment by giving back more green areas. Society would not have to put their money towards gas giving them the changes to save money. It would be a good way to encourage people to get an electric car. We can have more charging stations around the local gas station and give them the alternative to charging their vehicle at their home.



The source from Coalition for Future Mobility “In a fully automated vehicle, all occupants could safely pursue more productive or entertaining activities, like responding to email or watching a movie.” It would also help people possible who had a long day and would like to put the self-driving car on autopilot as the car makes its way home, all the new Tesla come with Traffic-aware cruise control with autosteer. The vehicle will not allow you to go to rest in the vehicle as it is moving, and the car is still in beta mode. Eventually, they would like to have self-driving cars be able to drive on their own in the future. “In the future, Hand-arm vibration syndrome (HAVs) could offer the convenience of dropping vehicle occupants at their destination, whether an airport or shopping mall, while the vehicle parks itself.” The self-driving car is that it can park by itself, which is a great feature to have with the vehicle, there is still a lot to be done with self-driving cars. According to the source policy advice “There are over fourteen thousand self-driving cars in the US.” There are not a lot of people, but we are making progress to have more people in self-driving cars. Technology car companies are still trying to get society to trust car technology on the road.



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According to my source by The Atlantic “Computers have nowhere near-human intelligence. On individual tasks, such as playing Go or identifying some objects in a picture, they can outperform humans, but that skill does not generalize.” That is very true to what the source had said about computers, just like in my programming class “computers are stupid” without the person telling them what to do, it will not do anything. My idea of “auto-pilot” with cars was that someone that is on the other side of the technology cars company would take over the car as the customer is in the car, and that would be “auto-pilot”. From my source, The Atlantic “very other computer things occasionally get hacked, so it’s a near-certainty that self-driving cars will be hacked, too.” An addition about self-driving cars would be able to stop hackers from getting into the control system of the cars, would cars companies have self-driving cars security for their cars. How would they handle a hacker crashing into another person’s car; Who's fault will it be?



From the Atlantic “We have had it in other areas of computing, such as the big-data hacks and security lapses and it will happen to autonomous cars.” Tesla has been in a total of twenty-eight crashes with Tesla vehicles. Waymo self-driving cars have been in 18 car accidents. To the Atlantic “Several engineers have questioned how self-driving systems based on machine

learning could be rigorously screened.” Just working with technology with cars, it is hard for people to put their trust in the hands of technology. There is still work to be done with all these self-driving cars, to make the future safer.

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