Artificial Intelligence and Drivers  
CS 370 Current/Emerging Trends in Computer Science

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As Artificial Intelligence has increased its use lately, people have become more susceptible to what and how can help improve people’s lives. Artificial Intelligence is a tool developed to perform tasks minimizing the margin of error. One of the most important problems that we are facing right now is the increase in car accidents in the last decade. As car accidents increase to an all-time high it’s crucial to prevent and minimize the errors since people risk their lives and others. “We will redouble our safety efforts, and we need everyone – state and local governments, safety advocates, automakers, and drivers – to join us. All our lives depend on it.” (NHTSA, 2021). The National Roadway Safety Strategy research shows how human behavior has created a higher number of car accidents in the last decade. The implementation of Artificial Intelligence in cars as the automatic system to develop self-driving cars can prevent these types of errors.

Introducing Artificial Intelligence to automobiles which leads to an efficient self-driving car will prevent car accidents since the car will follow instructions and will minimize the impulsive action made by users. Self-driving cars will allow the user to do different activities which are the main reasons for most accidents like texting and driving or driving intoxicated. “If human error accounts for as much as 94% of all road accidents, according to the National Highway Traffic Safety Administration, then perhaps it makes sense to rely more on technology to help keep us safe.” (Saltzman, 2022). Human error can be minimized to ensure the safety of all the drivers on the roads. Companies like Tesla, Ford, Volkswagen, Rivian, etc. Have a ready working in the automatization of cars and they will predict a full automatization of self-driving by 2030. To incentive customers to buy self-driving cars, they will start reducing the cost of cars, perfect the self-driving, and switch from motor cars to full EV engines. Also, if self-driving becomes a successful project people may switch from taking the bus to riding a fully autonomous vehicle since the prices of using it would be as low as driving the bus and efficient.

Self-driving cars were a dream that only movies and TV shows were possible visualize, but now, as the technology advantage, humans develop newer technological to keep up with the demand and facilitate people’s lives. There would be a lot of requirements to successfully translate to an era where cars can drive by themselves. One of them is self-driving software, a full self-driving software that enables the car to automatically take decisions based on data collected, environment, and approximately. The software would need to be fully capable of recognizing when and over is in front of it and making the decision to stop to prevent any accident. In the beginning, sensors in cars were a good idea to identify the surroundings in the car, but Tesla has shown that it’s better to use cameras instead. Cameras would provide a detailed perspective of the surroundings and will analyze every road carefully to collect that data analyze and in case of any error, it will not repeat again. I large data center would be necessary to share all the data collected from different roads and prevent errors. And finally, cars will need to share be able to identify each other to know the order of what they will driving, or the time estimate between cars to accelerate.

On the other hand, fully self-driving cars may not be the most efficient strategy for passengers, since as we know, technology can be hacked by malicious drivers, and depending on the scenario they can produce accidents or stop customers from starting the car or opening it. As more technology is in the cars, malicious users will find different ways to introduce it into their system and control it as they will. Also, if the cars are not allowed to be controlled, the car can cause accidents and the passengers will not be available to stop it.

As technology advances, people need to keep up with it to be available to manage it and use it, people who did not grow up with technology may disagree to use because of the lack of information on how to manipulate or use it, but this new technology allows us to innovate, facilitates thing, prevent disaster and increase as a society.

Citation

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