What does it do:

According to Analytics Insight magazine, the robotics sector continues to innovate by mixing artificial intelligence, vision, and other sensory technologies. Newer incarnations of robots are easier to set up and program than their predecessors, according to the magazine. High-tech ocean robots that explore the world beneath the waves, a robot named Saul that shoots UV rays at the Ebola virus to destroy it, and an AI-controlled therapeutic robot that helps caregivers and patients communicate more efficiently, which reduces stress, are just a few of the notable developments in 2021 (Mike Thomas 2021).

According to Mike Thomas, in terms of cognitive abilities and, in certain situations, appearance, the robot is more human-like (Mike Thomas 2021). 'In warehouses and factories, at fast food joints and clothing retailers, they're already working alongside humans. This one, in Germany, can pick like a champ. They're even starting to perform functions that have typically been the domain of humans, such as making coffee, caring for the elderly and, crucially, ferrying toilet paper. One Redwood City, California-based startup just got $32 million in Series A funding to further develop its robot waiters. And here's a neat new schlepper-bot named Gita. They're even proliferating down on the farm. But no matter which sector they serve, robots are far less advanced than many thought they'd be by now.' (Mike Thomas 2021)

Currently, robots can do such work that people can never believe it will exist in the future. Robots can readily perform repetitive tasks without becoming bored or exhausted, but humans may feel pressured to work it out. Furthermore, certain tasks may be hazardous for humans to perform, but we may employ robots to test them first for safety. Furthermore, because robots are far stronger than humans, many complex tasks that demand a great deal of power that a single person may not be capable of performing may be easily replaced by robots. Robots are not only stronger, but also more accurate than humans. Robots using sensors can compute the precise sizes and forms of objects that humans cannot. Companies and enterprises may be able to reduce manufacturing costs and errors by deploying robots, as individuals may become disoriented, while robots do not.

Home robots that are cloud-connected are now a part of our daily life. We can program the vacuum cleaner to do the job for us, and we can plan a nice home-cooked lunch for when we get home from work. Multi-function robotic cookers can fry, steam, bake, slow cook, and do a variety of other tasks without our help. They were only set up by us. These cloud-connected robots are expected to become more sophisticated in the future. In the future years, we anticipate witnessing greater voice comprehension and human relationships. These advancements have the potential to completely transform the look and feel of modern houses. (Laura Buckler 2021)

Autonomous vehicles and self-driving automobiles are currently available; however, they are not generally used due to a lack of customer confidence. I think that, with the rapid advancement of technology, businesses and organizations will soon be able to address the issue of autonomous car safety, and that autonomous vehicles will be feasible to use in the real world for regular people.

What is the likely impact?

Robotics and artificial intelligence development can enable us to do considerably more than we have so far. The possibility of casualties can be fully eliminated by sending robots to undertake activities that may endanger people's lives. Furthermore, robots are becoming an unavoidable part of any astronaut's space mission. Robots can scan the territory and compute the safety area for people thanks to their freedom of movement in an anti-gravity environment and accuracy sensors.

Boring and repetitive employment, such as that of a gas cashier, has already been replaced by automatic machinery in several wealthy nations. In the not-too-distant future, I believe that robots will increasingly supplant human labor. However, the primary purpose of robots is to assist people in completing difficult jobs, not to replace them. It implies that there may be additional work opportunities. Furthermore, as robots progress, people's lifestyles and quality of life may change. People used to have to sweep the floor with a typical broom, and it wasn't always as clean as it is now that vacuum cleaners are available. Not just vacuum cleaners, but now scientists and engineers are creating vacuuming robots that automatically detect objects, territory, and guarantee that the floor is much cleaner than before.

People working in the manufacturing business, in my opinion, will be the most affected by the production line adjustment. With the sophisticated machine, it is feasible that old and outdated methods of producing and clarifying items will be replaced by new and improved methods. This means that many people may lose their jobs as robots do their tasks with greater accuracy and regularity. Furthermore, factory owners may need to modernize their equipment in order to avoid falling behind in the manufacturing race when compared to the speed and quality of other companies' output.

People who work in the service business are also at risk of losing their jobs. Many drive-throughs now do not require any employees to accept orders, and all orders are processed by machines, thanks to advances in technology. This will be more precise than having a regular employee take the customer's input, which might lead to errors in the order. Furthermore, many robots can now cook with the ingredients supplied by employing a high-quality sensor and a complex algorithm to comprehend the request. As a result of this trend, many chefs may lose their jobs.

How will this affect you ?

I can now live my life more easily than ever before thanks to technological advancements. I used to have a home assistant who did all my family's domestic tasks, but she resigned one day, and those responsibilities were transferred to me. Washing dishes and vacuuming the floor is tough and boring for me at first. However, since my parents purchased a dish washer and a vacuum robot to handle my chores for me, I can now sit back and relax while these machines do the work. In conclusion, with the help of robots and their applications, people's quality of life may be elevated to a whole new level.

My buddy has a hard time navigating directions even with a map, therefore I believe it is critical to have robots that can tell her by voice so that she can get to her destination on time and without making any mistakes

Reference list:

Laura Buckler 2021, “10 Ways Robotics Could Transform Our Future”, *Robotiq,* blog post 27 July, viewed 1 December 2021, <https://blog.robotiq.com/10-ways-robotics-could-transform-our-future>

Mike Thomas 2021, *The future of robots and robotics,* Builtin, viewed 1 December, <https://builtin.com/robotics/future-robots-robotics>