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THE ROLE OF ARTIFICIAL INTELLIGENCE IN FUTURE TECHNOLOGY

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Artificial intelligence (AI) can be defined as the simulation of human intellect processes by machines particularly computer system. The processes here include learning, self-correction, and reasoning. Knowledge of engineering has been harnessed and used in AI. Engineering together with information technology enables thorough research that enables the machines to process information at complex levels. This allows the machine to do the sophisticated task just like human. AI technology application is developing at a light speed through the application of big data which is set the platform for a high volume and velocity of data that enables automation processes. AI is expected to have a strong effect on the future of technology thus making the human life simplified. The research focuses on the role of the AI in future technology. Achieving this will encompass examination of the real-life sectors where AI will be applied in future.

Automated transport is one key area where AI will take a ground in future. Self-driving cars will dominate the future transport industry. AI technology behind the self-driving car relies on sensor, connectivity and control algorithms. Sensor for effecting this is available today however further modifications are applied to suit the system for instance forward collision warning, monitoring of blind-spot and lane-keeping. Cameras, radar, and ultrasonic sensors are will be crucial for navigating the vehicles (Bojarski et al. 6). Connectivity, on the other hand, signifies that the cars have access to the prevailing or latest environmental conditions including weather, surface condition, maps and road infrastructure. The connectivity to the environment is necessary for avoiding hazardous conditions and anticipated braking. Finally, the software or the control algorithms will necessitate capturing of the data from the sensors and connectivity to make a wise decision on speed, route guidance, braking, and steering. This software, however, must be fault-tolerant to minimize failure that may result in fatal accidents.

Cyborg technology is another expected AI technology that will boost the memory of humankind. The natural ability of humanity in future will be enhanced through augmentation of the human mind with a computer. Individuals with amputated legs will be able to use artificial legs controlled from the mind just as normal human control their limbs. The technology will automatically reduce the challenges encountered by the amputees on their daily basis. Cyborg technology is upgrading to an extent of allowing software and hardware improvement to be used in the body in short cycles of time. It offers the body additional computational ability and thus transforms it to information processing technology. The technology is controllable through artificial thought because of the defined connection of the technology and the body through a closed-loop feedback system. If this AI technology comes to realization soon, we will have a new sort of humanity with different sorts of capability (Barfield 8).

Currently, the danger of climate change is catching up with everyone across the globe. The use of AI technology in solving climate change menace might be realized in future. The Google Company is on the run of funding a global warming and energy consumption studies. By applying machine learning in Google data center particularly DeepMind laboratory, the energy consumption was reduced by 40% using the computer system inspired by human brain (Donnell 1). Improving energy efficiency is one way of controlling climate change and possibly conservation of energy particularly from the non-renewable sources to the next generation. DeepMind success in energy conservation will widely help nations in balancing their energy utilization through the use of algorithm capable of predicting the demand and desired supply. Apart from direct climate changes aspect like energy use, AI is also crucial in predicting the weather and climatic conditions, through it, there are high chances of predicting heavy storms and cyclones thus giving people ample time to prepare for the disaster and escape through viable means. There is a progress in training the computer program inspired by the brain to gain insight into the patterns of extreme weather for making a long-term prediction on the climate change impacts in the future. The use of AI in this sector is saving humanity from complex work of predicting the interaction of between the local conditions and global trends, thus giving the accurate result of the weather extreme occurrence across the globe. With thorough research in AI technology and climate change, a future of reduced emission will be possible and humanity will be rescued from the devastating effects of the climate change.

AI technology is dominating the industries and homes though robots, the main aim of making the robots are to increase the work efficiency within the shortest time possible while maintaining reliability. Robots already exist in the manufacturing, science, postal services, surgery just to mention a few sectors. Further application of AI technology in robotics will saw a lot of changes in homes and industries. There are possibilities that robots will replace human in manufacturing industries, BMW a car company, for instance, is currently testing robots to work with a human. Other companies like Toyota are following the suit. The future of robots might be devastation ethically and moral, only a few months have elapsed since a Spanish engineer modeled and created Samantha a sex doll and a robot capable of satisfying a man sexually. Ethically, this doll erodes the norms of the several communities across the world that look forward to marriages for sexual satisfaction. It is also expected that AI technology will be applied in armed forces to deal with crime issues (Joh, 2). Automation of the security forces will pose danger if the technology is acquired and used by the wrong people especially terrorists. The company in Japan has already succeeded in making robots programmed to develop their emotion to suit the human emotion that they are capable of reading. These robots are designed to be emotionally friendly to human thus keeping them company. The future of robots will be sophisticated bearing in mind that AI technology use is still advancing.

To conclude, the use of AI predicts a lot of success to the future technology. With automation of transport sectors, accident frequencies and traffic jams will be cleared off in major cities in developed and developing nations. Also, cyborg technology will saw the evolution of superhuman capable of solving complex engineering and scientific equations to come up with an amicable solution to challenges facing the globe. The aching climate change menace will be addressed adequately scientifically. However, the challenge might also be realized when the AI technology replaces humanity socialization and economic productivity by robots.

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