Ethics related to Artificial Intelligence

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INTRODUCTION: Intelligence can be better portrayed as the most efficient and cognitive interaction of an organism with its surroundings and other living organisms. Human intelligence is the capability of humans with complex cognitive functions and extreme motivation with self-awareness. Artificial Intelligence on other hand is opposed to this natural intelligence and is carried out by machines in other words machines could be capable of mimicking human responses and reactions and evolve similarly like the human brain. The study of mathematical logic led to the rise of artificial intelligence, early research led by prominent mathematicians like Alan Turing help in the development of theory of computation which form the base for modern day computers. With the help of such mathematical logic scientists are able to create an electronic brain with is as efficient as a human brain. The concept lies in breaking down of a complex problem into modules or sub-problems and intelligent systems respond differently with each of these sub-parts these responses are used in creating system which not only performs the task but remembers how to respond to a particular problem. Researchers developed algorithms which imitated the step by step reasoning followed by humans in making logical deductions. Developments in probability and economics enabled researchers to predict outcomes with uncertain data. Knowledge pool or database is a power house AI research. Intelligence systems gather knowledge from different sources and store it and use it later when it's necessary. In addition to this come systems also collect "commonsense knowledge" which I common to humans only who use it fast and intuitive judgment. Another component of intelligent agents is planning which enable the AI system to visualize future by setting goals. In Classical planning problems AI can adapt and predict situations based on its assessment. Machine learning is also an important component of AI which is termed as the study of computer algorithms which evolve and update automatically with time. Mathematical tools in statistics like information theory and decision making theory assisted in creating better working intelligent systems. The use of Artificial Intelligence (AI) culture has raised many questions on ethics of using it. Ethics could be simplified as the moral behavior of the humans. Few of the famous research individuals argue about the profound effect of AI on human behavior. AI developers are designated to design and implement AI for future humanity and making of open source AI for the benefit of humanity has always been a challenge. There are certain ethical challenges which have become exclusively specialized with facial and voice recognition. Some of these applications are directly linked with business which has an adverse effect. And all these systems are vulnerable to human errors and biases. Large companies like IBM, Google etc. have addressed such issues and an elaborate research is unleashed in this field. And replacement of humans in certain positions with AI which require care and respect is debatable. An argument is there that positions like a soldier, customer service representative, judge and police officer require genuine feelings of empathy and self-realization which couldn't be replaced by an AI. Even in military combat the use of robots is debatable and when such robots can think, plan and act as per their will.

CONFLICT OF INTEREST

The author states there is no conflict of interest.