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Non-Traditional Security Challenges

Artificial Intelligence and Technological Advancement: An End to Human Miseries

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Abstract:

Artificial Intelligence has so far proved to be a friend to humanity and is expected to keep serving humans. Human intelligence is the supreme cause of man superiority over the rest of the creatures. Rationality in thoughts and actions differentiates it from animals and machines. What if this rationality and intelligence transferred in machines as Artificial Intelligence, making machines capable of taking decisions? Such machines are now gradually becoming part of human societies from digitalizing services to producing utilities for smart computers everywhere. The current role of smart equipment in people lives is just a tip of the iceberg as machines, especially artificial intelligence that is expected to reshape human perceptions in many aspects. Artificial intelligence is replacing almost all human actions, such as traffic wardens had been replaced by smart cameras and traffic signals. Countries like UAE, China and Japan are experiencing robotic wardens to apprehend the rules violators. Likewise, smart vehicles and self-driving cars can change almost everything about travelling and human comfort. Self-driving cars will not only bring the facilitations in driving but will also minimize the probabilities of breaking laws and accusing accidents. This is just the beginning of a new era.

Benefits of Artificial Intelligence:

Out of all services, Disaster Relief Operation is on the top of the list. For instance, China is working on robots to assist workers trapped in mines and collapsed in buildings. Additionally, machines and programs are helping in handling radio-active environment

in nuclear facilities. Cheap and rich energy in nuclear materials could safely be harvested with the assistance of artificial intelligence.

Artificial Intelligence is capable of changing the concept of wars. Future wars may be fought between armies of machines, with the assistance of humans safely sitting in control rooms. Drones in combat missions are merely 'Déjà vu' for future wars among machines. First-world countries are spending much on research to develop smart equipment. Prudent use of artificial intelligence has been a cause of greater confront in human lives. It is expected to affect almost every sphere of human life. Economic missionaries can be addressed with efficient use of the resource by applying artificial intelligence.

Mass production is usually associated with industrial revolution, but traditional machines could only perform a set of few programmed tasks in manufacturing simple utilities. Until the 21st century, invention of the internet and computer empower humans to induce their intelligence in machines, but modern time is going to create positive revolution in the whole world. Artificial intelligence is the reason for mass production of other smart machines such as self-driving cars, information system and combating robots. Whereas hazardous environmental conditions such as volcanic

activity, wildfire and radioactive areas pose a serious threat to human life. Under such circumstances, relief operations for people trapped in such area, pose an additional threat of life to rescue teams. For instance, in the recent bushfire in Australia, more than twenty people died in rescue activities. On the other hand, in 2015, Malaysia lost its Boeing 370, which has never been recovered despite costly rescue operation. If equipped with smart machines capable of detecting humans and guiding them through safe ways, all such rescue operations can save thousands of human lives.

Development of rational and intelligent machines can take decisions in changing circumstances and replace humans with machines and better productivity. Rapidly detecting natural resources and increasing energy demand is the predominant problem of the countries. Hybrid cars, smart homes and buildings equipped with intelligent sensors are making efficient less of energy now a days. Whereas, future homes are predicted to be switchless that curb energy waste.

Artificial intelligence has an immense number of applications in marketing as well. The biggest shopping store in the world, Amazon, has no warehouses. Software connected with the internet and computer takes online orders and dispatches the desired product within a specific time with human assistance. The revolutionary changes have been gradual past of marketing but in current scenario, ‘Digitalization” and “Artificial Intelligence” are giving it a new boost.

According to Mckinsey Global Institute’, One-third of the United States workforce is likely to go through job re-profiling by the end of 2020.

Similarly, marketing managing software used in the stock exchange, labor management and supply chain management are enhancing productivity. There is a strong nexus between artificial intelligence and digitalization. These together can be a lethal tool against inefficiency, corruption and incompetence. For instance, smart programs installed in a system of the 'State Bank' and the affiliated private bank could segregate suspicious transactions from the normal one. Otherwise, manual inspection of millions of transactions is time-taking and exhausting activity. This could help in addressing money laundering and terror financing; in short, a way out of 'Financial Action Task Force' (FATF) Grey List. Similarly, intelligent system utilization in FBR could boost revenue by locating, identifying and predicting potential tax evaders.

Artificial Intelligence-based programmes also improve social as well as economic services at government disposal. Artificial Intelligence has an incredible job in the field of mechanical autonomy. Man-made consciousness in mechanical technology covers preparing, structuring, human factors and processing hypothesis.

Recommendations:

- Artificial intelligence must improve cyber security to counter attacks at a large scale. It has vulnerabilities of various kinds such as hacking.
- Government must run rigorous pre-release trials to ensure that the AI system will not amplify biases and errors due to any issues with the training data.
- Artificial intelligence is a smart technology not a threat. It is effective in enhancing the efficacy of agriculture, economic sectors, health care, and disaster relief sectors. However, there are some misconceptions associated with AI that smart machines can take over the whole world. Some sectors are also taking artificial intelligence as a serious threat to the job market, but these are mere misconceptions that can be addressed in many ways including, creating awareness about AI, introduction to smart machines, and their use. The need of the hour is to improve cyber security so that information cannot be hacked or leaked.