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Popular Article

Artificial Intelligence and Its Potential Impact on Society

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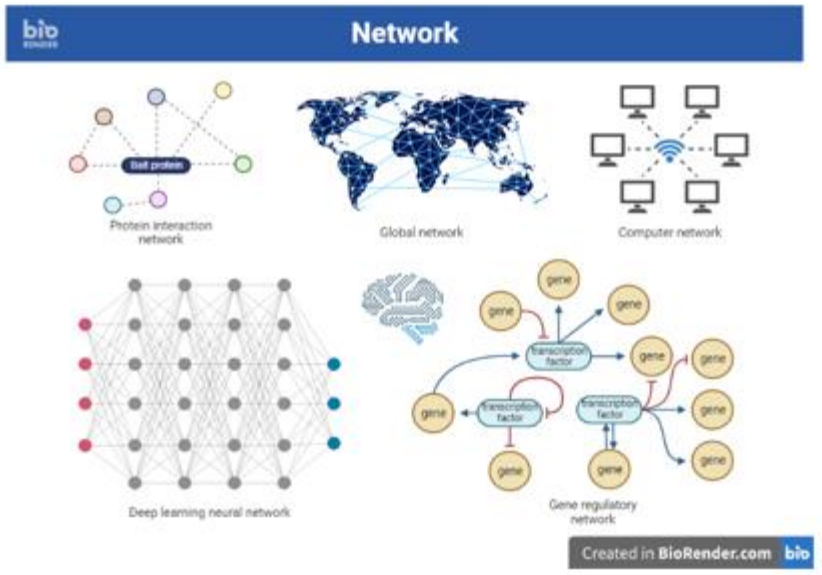
Introduction

Artificial intelligence is influencing practically every sector of human endeavor. With tools like ChatGPT and AI art generators gaining public prominence, it is already the primary force behind developing technologies like big data, robots, and IoT. For the foreseeable future, it will continue to serve as an innovator in technology. It's difficult to keep up with the latest breakthroughs in artificial intelligence, which is why the potential development of AI may appear to be a swiftly shifting landscape. Artificial intelligence has advanced quickly and is no longer simply an idea from sci-fi movies and books, with driverless automobiles and voice automation in houses. In the coming years, artificial intelligence (AI) will permeate every aspect of our life and eventually surpass human intellectual capacity.

The Evolution of AI:

The way AI affects computers is one of the reasons for its impact on technology. Artificial intelligence (AI)-powered computers can access huge quantities of data and use the information they have collected to make the most advanced assessments and discoveries in just a bit of the time than it would take for humans.

The journey towards the development of AI began in the early 1950s with Alan Turing's breakthrough, he developed the Turing Test to assess whether a machine could simulate human thought processes. The invention of the first AI programming language, LISP, by John McCarthy in the 1960s accelerated AI research. Early AI systems emphasized symbolic computation and rule-based systems, leading to the formation of specialized systems in the decades between the years 1970 and 1980. The greater availability of digital data and developments in computing power fueled a shift in emphasis towards machine learning and data-driven approaches in the 1990s. During this time, neural networks and support vector machines were developed, allowing AI systems to learn from data and improve performance and adaptability. AI research extended into new fields throughout the 2000s, such as natural language processing, computer vision, and robotics, setting the path for today's AI revolution.



AI and its key role in Modern Networking (picture created in Biorender)

Definitions of Intelligence:

Being intelligent is having the ability to act appropriately when the alternative—doing nothing or not changing one's behavior—would be worse. Therefore, intelligence calls for

- the capacity to perceive contexts for action;
- the capacity to act;
- the capacity to associate contexts with actions.

Beneficial Effects of Artificial Intelligence on Society

The potential for artificial intelligence to greatly boost workplace efficiency and broaden the spectrum of jobs that individuals are capable of is enormous. Now that AI can perform hard or hazardous tasks, the human workforce may concentrate on jobs for which they are better suited, such

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those requiring creativity and sensitivity. People who are employed in more rewarding jobs may be happier and more satisfied with their jobs.

Artificial intelligence can have a significant impact on healthcare by improving monitoring and diagnostic skills. AI can lower operating expenses and save money by enhancing the effectiveness of medical organizations and healthcare facilities. According to a McKinsey estimate, big data might reduce medical and pharmaceutical costs by up to $100 billion yearly. The care of patients will have the biggest impact. Life-changing opportunities include the potential for customized treatment plans and pharmacological regimes, as well as improved provider access to data from various medical facilities to help guide patient care.

With artificial intelligence, we can better detect illegal activity and solve crimes. As with fingerprints, facial recognition technology is gaining popularity. The application of AI in the legal system offers numerous opportunities to figure out how to make use of the technology successfully without invading someone's privacy.

Your life will be profoundly changed by artificial intelligence unless you decide to live remotely and never want to engage with the modern world. The expectation is that artificial intelligence will generally have a better than the bad impact on society, despite the many learning experiences and obstacles to be encountered as the technology rolls out into new areas.

Will AI Replace Human Jobs??

A report from the World Economic Forum (WEF) estimates that by 2025, enterprises' adoption of emerging technologies will change tasks, employment, and skills. As a result of integrating technology and AI, 43% of the businesses questioned said they plan to reduce their employment, compared to 34% who want to increase it.

Employers anticipate that by 2025, the percentage of "increasingly redundant roles" in the workforce will drop from 15.4% to 9%. However, the number of emerging professions—those that will be newly enabled by emerging technologies will increase from 7.8% to 13.5%.

AI in Health Care

Researchers from Babylon Health and University College London revealed that causal machine learning models currently outperform human doctors' diagnostic accuracy in a peer-reviewed study published last year. When given the task of diagnosing written test cases of plausible

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ailments, the researchers discovered that the ML model utilized in the study performed better than 72% of general practitioner doctors.

Other applications of AI include accelerating drug discovery, improving early detection of diseases like cancer and Alzheimer's, and developing precision medicines that could one day revolutionize healthcare by replacing the current one-drug-fits-all approach with personalized, unique drugs and treatments.

Conclusion

Although we often are persuaded to believe it is, artificial intelligence is not as the first or unique in the human experience as we might think and is already affecting society more quickly than we realize. We have previously had our capacities increased, our economics changed, and our social order disrupted generally, though not always for the better by other artifactual entities like language and writing, businesses and governments, telecommunication, and oil. Ironically, the greatest threat we currently face is perhaps also the proof that, on the whole, progress has made us better off for a sustainable living and stemming the loss of biodiversity.

Finally, Artificial Intelligence is rapidly transforming the way we work and live. Tasks are being automated, financial services as well as in healthcare are being improved, and our entertainment and shopping habits are changing. Nevertheless, as technology advances, it's critical to take into account the potential drawbacks, such as job relocation, and to strive towards seeking solutions that mitigate these negative effects. Although AI has a promising future, it is essential to proceed cautiously and make sure that it is utilized in ways that will be advantageous to the world.

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