Editor's Message

Artificial Intelligence (AI) Importance - A Brainchild of Humans !

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May 11, 2024

"Human Brain Intelligence cannot be Dwarfed by AI (Artificial Intelligence), a Brain Child of Human, but a Remarkable Tool to handle Colossal Data more Efficiently with a Greater Speed, Accuracy using Smart Algorithms Devoid of Emotions & New Science !"

- R K Kotnala

It is our pleasure to focus on the importance of AI role in science & technology alongwith, how a common man is reaping direct benefit from AI ? The CNS&E journal Vol 1, issue 3 cover page depicts a representative picture (courtesy Adobe) of AI and human brain. No doubt AI is the brainchild of humans as such; hence it can never supersede human brain potential ! Although, it is sure that AI is not only about machine language algorithms as it is the outcome of human imaginations. Thereby, AI is not just about machines but humans intelligence & machines work together, wherein it augments our capabilities to bigger heights. It explicitly means AI is an assistive tool rather than a human intelligence substitute. In short, AI is a remarkable tool to handle Colossal Data more efficiently with a greater speed, accuracy using Smart Algorithms devoid of Emotions & New Science !

No doubt AI is playing a significant transforming role in science and technology and today's documentation tasks to serve masses. It is being used frequently in data analysis, natural language processing, and computer vision, supporting the scientists & engineers in data analysis, improving decision-making on the healthcare tests/measurements. It is well known that AI-powered simulations are being used to model complex systems like weather forecasting, predict disease outbreaks etc. AI-driven robots are assisting in industries automation tasks, also in surgery and space exploration. Besides, it is also being used to analyze huge amounts of data, identify sound/image patterns and is able to predict outcomes. In a wider perspective AI has led to significant advancements in fields such as medicine, engineering, finance, energy and environmental science.

That is why, CNS&E has focussed on the manuscript published in this issue - Quantum 3.0: Quantum Learning, Quantum Heuristics and Beyond.

Quantum learning paradigms address the question of how best to harness conceptual elements of quantum mechanics and information processing to improve operability and functionality of a computing system for specific tasks through experience. It is one of the fastest evolving frameworks, which lies at the intersection of physics, statistics and information processing, and is the next frontier for data sciences, machine learning and artificial intelligence. Progress in quantum learning paradigms is driven by multiple factors.

R K Kotnala