

## An Editorial

### New Age Educational Transformation using Education 4.0

Education 4.0 is based on flexibility, personalization, and collaboration. Derived from the traditional educational models it is highly technological, intelligent and self-paced learning matters. With the help of AI-centered platforms educational systems are growing rapidly in diverse pathways. It is a kind of competency-based education and outcome-driven designs and it is highly dedicated in real world problem solving. Education 4.0 solves the real-world problem and skills. Teachers basically perform the role of the content creator, facilitator as well as mentor and Education 4.0 is dedicated in fulfillment of many criteria and it fulfills the cultivating, self-directed learning environment. AI's impact on education not only depends on content delivery but also it revolutionizes the ways of learners and teaching offering. Use of Cloud Computing, bigdata, IoT, machine learning and Deep learning, natural language processing, and computer vision, etc. are dedicated in bringing of new-age intelligent tutoring systems with real-time sentiment analysis in classrooms. Virtual teaching assistants stimulate student engagement while alleviating administrative responsibilities. It is an important fact that AI-driven learning analytics is empowers educators regarding finding of academic risks. AI involves using advanced technologies like machine learning, natural language processing, neural networks, and cognitive computing to enhance and replicate human cognitive skills associated with teaching and learning. The role of AI extends across and diverse areas such as in content development and delivery, support in teaching-learning process, assessment and evaluation process, efficiency in administration, etc. These functions are deeply rooted in constructivist and cognitivist theories, emphasizing that learning flourishes through real-time interaction, feedback, and data-informed decisions. With such technological support in education and teaching-learning process Education System is drastically changed and towards a new age educational model.

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