

Artificial Intelligence is a significant factor behind the most important tool in the world's arsenal against pandemics. Elaborate.

The modern society of India is moving towards technological and economical IR 4.0 which enabled us to combat pandemic using Artificial Intelligence as a feature of world.

Chemical analysis - Drug development:

1. India's Indegenous, COVAXIN, DRDO-D-6 vaccine, USAID-Sputnik, Russia's Sputnik-V are done due to AI

infrastructure

2. Combination of chemicals, its concentration and simulation of testing is necessarily to be fastened exponentially by AI.

Tracking Patients - AI:

1. During any pandemic like COVID, Ebola in Africa or ZIKA, the tracking of patients becomes essential for contact tracing and movement spread tracks of diseases.

2. PARAM SIDDHI → AI computers helped India to develop Aarogya - Sethu App which tracks people residing 500m - 10km surrounding - which helped India

Monitoring Severe pandemic patients - ICU:

1. The AI during pandemic paved the way for Robotic nurses for giving medicine, and medical instruments for automatic BP, Glucose, Oxygen levels for ICU-patients
2. (2.9) E-SANJEEVAN and Telemedicine in India and Robo-Doc at UK are results of AI which forms a major hand in pandemic although there is acute shortage of doctors.

Modelling Severity of diseases - Future:

1. AI helped in predicting second wave during 1st wave and also, it predicted 3rd wave of COVID in major parts of world.
2. (2.9) India's AI supercomputers at IISc-Bangalore with ICMR associated with COVID-19 in analysis of 2nd wave peak during May-2021 and third wave peak to be August-Sept 2021

Conclusion:

The Artificial Intelligence is the worst gifted arsenal in combating COVID-19, ZIKA, Ebola and HIV. Development, implementation of modelling and running of test has undertaken BIRAC of India and its world's associated to safeguard the global from pandemic in future.