

Disease Control and Awareness with the Help of Artificial Intelligence during the COVID-19 Pandemic

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Description

The COVID-19 pandemic has become a major drawback in our daily life. It completely changed the economic, social, and educational scenario of the whole world. The principal objective of the study is to provide the current technological aspects of Artificial Intelligence (AI) and other advanced technologies and their implications for challenging COVID-19 and preventing the pandemic's terrible effects. Artificial Intelligence (AI) is a broad stream of Computer Science, deals with building a elegant machine which generally needed human intelligence. AI can be characterized as Machine Learning, Deep Learning, Natural Language Processing (NLP), and Computer vision applications that work by acquiring knowledge about a huge set of data sets to develop compelling frameworks for handling the worldwide wellbeing crisis [1].

Some Machine learning based on AI is being used as the first line of defence to assist the fight against the pandemic. Many organizations are using Machine Learning based algorithms to check the temperature by scanning faces, triage at hospitals, and tracking super-spreader using individual data sets. The application of Natural Language Processing (NLP) is responsible to incorporate planning, developing, recognizing, understanding, and classifying clinical records as well as scientific papers. It can analyse and extract information from various types of structured data, such as medical records. It can also identify patterns in the data and extract useful information from it.

AI technology can track the spread of harmful viruses' outbreaks and can identify critical patients and regions. It can predict the likelihood of a death or recovery case for COVID-19 patients by analysing the data collected by medical staff members. After confirming COVID-19 infections using AI, doctors started carrying out treatment procedures. The Doctors also monitored the patients as well as AI applications to management ensure that they did not get infected. AI is a useful tool to identify patients with COVID-19 infections and improve treatment consistency [2].

Many AI-based activities have the capability to contribute in managing this pandemic, for example, assisting Doctors with observing health emergencies and handle numerous patients in hospitals, scanning of infected humans with the help of thermal imaging, estimating social distancing and lockdown systems, and giving service to health administrator to bring awareness throughout the world. AI based models offer communal service to COVID patient and helps to teach others. Hence such a technique, represent how society and public organizations can be profitable from the utilization of AI. AI-based drones are utilized for the secure and quick supply of clinical supplies in critical areas. AI-empowered robots are utilized for cleaning, sanitizing, and conveying food and medication to avoid human-to-human contact. ML-based UVD robots utilizing UV rays can sanitize and autonomously kill microorganisms to restrict the spread of Coronavirus [3].

CONCLUSION

Accepting the three-pronged methodology based on testing, isolation and contact tracing is warranted to fight against COVID-19. It is important to exploit the available resource to develop chemotherapeutic agents against COVID-19, taking cues from the lessons learned during the past outbreaks. As there could be no silver shot available to cure the infection, we need to hasten progress on all fronts going from observation and monitoring to anticipation and treatment. As this is the third episode of a Coronavirus in present and numerous Coronavirus are communicating in this animal kingdom, we must aim at decrypting the molecular mechanism of SARS-CoV-2 and other coronaviruses and expanding our readiness by capacity building for preventing future outbreaks. As the current situation warrants the quick requirement of a solution, the response to this pandemic was tremendously expanded by different advanced technologies and AI. Artificial Intelligence was observed to be more and more superior to human specialists in COVID-19 detection and diagnosis. We need more datasets for preparing AI models and a legitimate system and ethical considerations for sharing information before AI takes the lead in diagnosis and other functional areas [4].

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Received: July 13, 2021; **Accepted:** July 27, 2021; **Published:** August 3, 2021

Citation: Liu W (2021) Disease Control and Awareness with the Help of Artificial Intelligence during the COVID-19 Pandemic. J Inform Tech Softw Eng. 11: 266.

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