

# Artificial Intelligence in CORONA Virus

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AI is the most demanding field of the world. It is playing a vital role in many aspects like prediction of any pandemic or making any vaccine faster.

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## 1. Introduction

As coronavirus has spread all over the world, medical staff and many security agencies are trying to handle it. So far AI boom is happening all over the world and it is accelerating very quickly. So far 81.12 lakhs cases are there and more than 4.39 lakhs are casualties (16 Jun 2020). According to experts it is very difficult to handle this virus with the mask. The only thing which can help us is the advancement in AI.

## 2. The Function of AI in CORONA Virus

### 2.1 AI Can Predict the Pandemic

AI was the first thing that predicted the pandemic of coronavirus. A Company BlueDot which purpose is to monitor infectious diseases around the world through machine language. On December 30th, 2019, BlueDot sent outbreak warning letters to their alert clients including government, hospitals and businesses.

World Health Organization (WHO) is also one of the clients of BlueDot who receive warning letters. But they did not react until January 9th, 2020. Besides that an automated service called healthmap at Boston Children's Hospital also caught that signs. Other than this, human team at BlueDot and AI found the outbreak on the same day. Besides the valuable prediction, diagnostic tool for vaccine is in their early stages.

### 2.2. AI Can Speed up the Vaccine Process

AI helps us by predicting the pandemic and it can also help to develop the vaccine. Its vaccine development process is faster than ever. In China, scientists recreated a genome sequence of virus in one month. To know how useful it is, it took many months to create a genome sequence of SARS virus in 2003. We could identify drug to test it on humans by having an exact genome sequence.

Last year a drug has been entirely created by the help AI. Team at Flinders university in Australia claimed to have an advance influenza vaccine using AI a program called SAM. Therefore, this was the first time the whole vaccine is discovered by it.

### 2.3. AI Can Minimize the Death Rate

As AI can help us to reduce the pandemic by prediction but it can also help to reduce the death rate. By predicting the affected area it can restrict people to avoid to travel there. By handling the outbreak with it, it can help the doctor by creating less burden on them. It also informs proper care procedures to patient. Besides the people this virus has affected many of the medical staff of the hospitals. To reduce the burden on doctors it can help them by robots. In China they are using robots to diagnose the patient and they are using AI ambulance to get rid of high traffic.

### 2.4. AI CAN MANAGE THE DISEASE

AI has a capability of detecting the natural disaster like earthquake, fires and flood before its happening. It can also detect which area needs the most number of rescue teams. In China where this virus originated, AI helped to detect the spread of the virus. It can also predict where the disease might be traveling to. Chinese launched a mobile application where they

can check they have traveled with coronavirus patient or not. Even they are using drones to monitor their traffic, crowds and a city crowded places. It can also help to figure out those people who are not using mask in coronavirus.

## **| 2.5. AI Can Help to Detect Coronavirus Patients**

AI can help us to detect the patients by many methods. Some of these methods including automatically measuring people temperature in public by the help of sensors. It can also diagnose coronavirus infections from chest x-ray scans. Already these deep learning tools are being used in hospitals to screen mild cases. In future, this technology might predict which patient likely to need a ventilator.

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