

INFORMATION TECHNOLOGIES: REBOOTING THE WORLD ACTIVITIES DURING COVID 19

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ABSTARCT

The present mini-review projects the important roles of IT scientific tools during the pandemic situation of COVID 19 across the globe. The study sheds light on the IT technological driven processes to combat the current COVID 19 situation. The principles of information science have well collaborated with different scientific domains ranging from telemedicine to medical robotics, development of QR codes to differentiate the infected individuals. The development of supercomputers uses big data science and data mining tools to develop a mega database and e-library related to COVID. The present study also highlights the importance of BLAST techniques, app-based technologies, drone techniques, and cloud computing especially the human cloud. The review summarizes the important strategies implemented by great nation United States to curb and control the spread of COVID 19 infections with the roles of CDC and FDA governing bodies along with the collaborative roles of IT firms. The study marks the influence of IT sectors in academics with online learning platforms. The study envisions the upcoming roles of information science in the post-COVID 19 era which can aid to uplift the global economic standards with the implementation of technologies like automated processing, rapid adoption internet of things (IOT), and edge computing.

KEYWORDS: Information science, COVID 19, roles of IT, pandemic, Cloud computing, Big data Science, telemedicine, Online education.

INTRODUCTION

Ever since the first report of COVID 19 surfaced, the world has witnessed drastic use of technologies from different scientific domains [1]. One such area, playing an important role is information science which has been working since day one to broadcast and forecast the pattern of COVID 19 which has help the scientific and medical communities to come up with the preventive strategies [2]. The untiring efforts of scientific fraternities are underway to mark the end of the pandemic situation which is well supported by the IT tools. The initial modeling and sequencing of COVID 19 aided the governing bodies about the disease pattern which marked the initial step in designing potent drug or vaccine which is under the progress [3]. Similarly, the use of Big data science nurtured the control strategy of COVID 19 by determining the travel history of the individual and suppressing the moments of the infected individual using QR code, an App- based systemic tool to monitor the moments of the patient and potential carriers [4,5].