

# Vital Role of Technology on Fighting Covid-19 Pandemic

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**Abstract:** The whole fights against the corona virus disease which is an infectious respiratory disease which has high transmissibility and has no medical therapy or vaccine which has been declared as the pandemic by the world health organization popularly known in short as WHO and is a global pandemic. The 21<sup>st</sup> century is the digital age and digitalization is the global trend. Technology has played a vital role in fighting with the COVID-19 Pandemic. The sudden world-wide pandemic forced to imposed lockdown during which there is digital surge. This research paper focuses on the vital role of technology in fighting the COVID-19 Pandemic.

**Keywords:** Technology, Information and Communication Technology, COVID-19, Pandemic, Digital Surge

## I. INTRODUCTION

Health is Wealth. The sudden worldwide pandemic and the lockdown situation in which technology played a vital role in fighting with this pandemic. The whole fights against the corona virus disease which is an infectious respiratory disease which has high transmissibility and has no medical therapy or vaccine which has been declared as the pandemic by the world health organization popularly known in short as WHO and is a global pandemic. The 21<sup>st</sup> century is the digital age and digitalization is the global trend. Technology has played a vital role in fighting with the COVID-19 Pandemic. The sudden worldwide pandemic forced to imposed lockdown during which there is digital surge.

Today 21<sup>st</sup> century is the digital age and digitalization is seen in every areas like E-Commerce, E-Business, E-Payments, E-Services, E-Learning, E-Bookings, E-Banking etc. With this sudden worldwide pandemic where the whole world fights against the COVID-19 Pandemic, a health battle Technology played a significant role. Because of Technology it helped us in managing the crises effectively. During the hard, difficult and at time of sheer uncertainty it is the technology which has been our lifeline and helped us to manage the things effectively and efficiently with just simple clicks at the place we are and at the time we wish 24\*7.

The humans are having a relationship with technology since 1960's. In this hard, difficult and a time with constant fear technology played an important role in monitoring of population, recognizing cases, tracing out of contacts and the spread of cases all over the globe.

## II. REVIEW OF LITERATURE

**Mihalis Kritikos, 2020** of the Scientific Foresight Unit (STOA) analysed thoroughly how the well defined clear 10 technological domains are helping to fight against the communicable respiratory COVID-19 Disease which has been declared as pandemic by the World Health Organization (WHO) and is a global pandemic by ways of novel new, convenient applications. It informs and concentrates on the much legal and regulatory disputes and on the key socio-ethical difficult for the diverse application of those technologies pose when put in a very public-health emergency context like the communicable Covid-19 a worldwide global pandemic disease.

**Veena Shenoy, Sheetal Mahendher, 2020** have analysed that due to the acceptance and the global trend of digitalisation and technology in higher education it has made the revolution of it. In the city of Bangalore rather than the regular chalk and talk traditional type of white board classroom teaching most of the higher education in the city Bangalore has extensively adopted the use of technology and student's collaboration with regards to it.

**Daniel, 2020** permits a resolution to the subject for ongoing pattern of learning. The study done by him shows that there is a high and a rich response as this method is very simple and quite easy for remote The UK Open University who had already started using this technique during the global worldwide COVID19 pandemic. Educational Institutes, Academic Fraternity, and students Group should follow to use more flexible, new and innovative methods to retrieve the damage and loss done by the communicable global worldwide COVID-19 Pandemic Disease.

### **III. OBJECTIVE OF THE STUDY**

The research paper has the following subsequent objectives:

- To know and understand about the Vital Role of Technology in Fighting Covid-19 Pandemic
- To know in which areas technology helped us to move forward with this ongoing situation and helped us to survive in this Pandemic situation.
- To draw a conclusion.

### **IV. SCOPE OF THE RESEARCH STUDY**

The present research study has been undertaken to know and understand about digitalisation trend and the relationship that humans share with technology, and also about the vital and significant role of technology in fighting with the worldwide global COVID-19 Pandemic which proved a boon to us during this hard, difficult, a time with constant fear and adversity of worldwide global COVID-19 Pandemic, to study during which areas technology helped us to move forward with this difficult and a time with constant fear ongoing situation and helped us in fighting and to survive during this Worldwide global Pandemic situation. this research study are going to be of immense help to the academic fraternity, research scholar group, policy makers, students, corporates, researchers and organizations to obtain an understanding about the significant role of technology which is that the most vital a part of our human lives and therefore the new normal and a boon during this adversity of worldwide global Covid-19 Pandemic. With the help of this present research study, further significant changes for betterment and development for a much better smarter brighter future with the assistance of technology are often made by knowing this scenario of the present situation and may be helpful for future planning and framing strategies for a successful mission and for better development. The study relies on the foremost important and ongoing topic i.e. vital role of technology in fighting with the world wide global covid-19 pandemic and with this research study innovations further in technology are often planned, steps to develop it further and planning and strategy formulation will be made for the long term.

### **V. RESEARCH METHODOLOGY**

The word “Research” is split in two parts “RE” and “SEARCH” “which means to look again and again. it's a scientific way to carry a study on a selected topic. The term Research Methodology is that the procedure wont to find, choose, filter and analyse information a couple of particular topic. To fulfil the above-mentioned objective, the data employed is secondary data. this research work is a mixture of descriptive and exploratory research work and has extensively used the secondary data method for the research study. The research study undertaken is solely secondary. the knowledge employed in this study is collected through various newspaper, magazines, conference proceedings, websites, journals, and books etc to gather various data for the data collected employed in this study.

### **VI. VITAL ROLE OF TECHNOLOGY IN FIGHTING COVID-19 PANDEMIC**

The whole fight against the corona virus disease which is an infectious respiratory disease which has high transmissibility and has no medical therapy or vaccine which has been declared as the pandemic by the world health organization popularly known in short as WHO and is a global pandemic. The 21<sup>st</sup> century is the digital age and digitalization is the global trend. Technology has played a vital role in fighting with the COVID-19 Pandemic. The sudden worldwide pandemic forced to imposed lockdown during which there is digital surge. During the hard and difficult times of worldwide global COVID-19 Pandemic ICT enabled learning, Electronic Banking, Digital Business, Electronic Payments also known as Cashless Payments, Electronic Commerce the global trend, Work from home a

flexible solution, online Entertainment via various digital platforms, applications developed specially for tracing the spread of this infectious communicable respiratory disease, share market, contactless delivery in this hard times to control the spread of infection and avoid going out, robotics for various services, applications for staying fit at home, learning cooking, education, to monitor the temperatures with the help of wireless thermometers etc. were possible.

#### **6.1 Distance, Online, ICT Enabled Learning**

During the hard and difficult times of global worldwide COVID-19 Pandemic the online education also known as digital education, distance education, ICT enabled education proved a boon for keeping in continuance with the academic calendar planning and also to keep the students and the teachers engaged during this hard times of pandemic.

#### **6.2 ICT Enabled Online Entertainment**

Due to the fast transmission of the worldwide global COVID-19 Pandemic and the lockdown across the whole globe the online digital platforms kept us entertaining in the times of constant fear. Various applications like Hotstar, YouTube, Netflix, Amazon Prime and various gaming and other entertainment applications helped a lot in maintaining the mental health during the hard and times of constant fear.

#### **6.3 Various Applications for Tracing the Spread of Covid-19 Disease**

Various applications were developed to trace the spread of the worldwide global COVID-19 pandemic. Even technology helped to recognize the people wearing face mask for the protection against the fast-transmitted corona virus disease. Technology also played a significant role in knowing the movements of the people quarantined.

#### **6.4 Stock Exchange (Securities Market)**

In the hard and difficult times of world-wide global pandemic where the whole world is going to affect very badly, the financial crises are going to increase, increase in poverty, increase in unemployment, reverse migration to rural areas, technology in the stock market lead to increase in the trading numbers and also kept the clients, investors, brokers engaged rather than sitting at home and getting bored.

#### **6.5 Various Applications for Online and Contactless Deliveries**

During the times of worldwide global pandemic, a time where people were in constant fear and avoided going out to protect themselves from the fast-transmitted corona virus disease there is a tremendous increase in the online contactless delivery market.

### **VII. USE OF ROBOTS**

In this hard, difficult and a time with constant fear of worldwide global Corona Virus Pandemic the use of robots played a vital role. Robots were used to clean the infected area, to deliver the food to the people who are quarantined, in helping the medical professionals where people feared going. The Drones also played a vital role in helping to reach the medicines to the quarantined areas, disinfect areas, deliver food packets, transportation of the test kits, sanitising the infected area etc.

### **VIII. CIRCULATION OF INFORMATION**

The companies like google and Facebook played an important role in circulating the information about the total number of cases, the total number of active cases, the quarantined areas, containment zones etc. so that the people could actually know and understand the true situation. These companies tried to provide true and accurate information otherwise people are in constant fear and may create a panic.

### **8.1 Various Applications for Physical and Mental Well Being**

Due to the pandemic and lockdown situation the people had to stay indoors to protect oneself from the fast-transmitted corona virus disease and thus there are various applications developed which helped people in staying physical and mental wellbeing at home.

### **8.2 Monitoring the Temperature with the Help of Technology**

The innovations in technology and the infrared and wireless thermometers helped in monitoring the temperature by maintaining physical distancing and without touching nose, eyes or mouth. To trace out a person with fever a symptom of the corona virus disease the wireless thermometers were kept at the entry and exit points of apartments, malls, offices, hotels, railway stations, airports etc.

### **8.3 A Flexible Solution to Work: Work from Home**

Due to the advancements in information and communication technology the work from home was a flexible solution to this worldwide global COVID-19 Pandemic. It also assisted in maintaining the mental health of the people staying indoors during the lockdown and work from their comfortable place. Thus, technology played a vital role and proved a boon to us.

### **IX. CONCLUSION**

The humans have the relationship with technology since the year 1960. The whole fights against the corona virus disease which is an infectious respiratory disease which has high transmissibility and has no medical therapy or vaccine which has been declared as the pandemic by the world health organization popularly known in short as WHO and is a global pandemic. The 21<sup>st</sup> century is the digital age and digitalization is the global trend. Technology has played a vital role in fighting with the COVID-19 Pandemic. The innovations and advancements in the information and communications technology has played a vital and significant role and helped us a lot in this hard and difficult times of worldwide global pandemic.

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