

The Covid-19 pandemic triggered an Unprecedented demand in digital health technology

How technology was harnessed to aid the management of Pandemic

## ① Healthcare Technology

- Telemedicine: remote consultation  
e.g. Practo, Teladoc
- AI in Diagnostic: Rapid detection, algorithm to analyse chest X-ray, identifying Symptoms from large data set
- Portable test solutions: Quick detection of virus e.g. PCR & antigen.

## ② Vaccine Development - & Distribution

- mRNA Technology: faster development & production than traditional  
(Pfizer - BionTech) & Moderna
- Blockchain for Vaccine Distribution:  
to ensure Secure distribution  
Preventing Counterfeiting

### ③ Disease Surveillance:

- contact tracing APP: Agraya Setu (India) to track & trace individual.
- AI & ML Models used to track spread of virus.

### ④ Remote Work & Education

- Cloud Computing & Collab. tools
  - enable employees & student to work from home.

### ⑤ 3D Printing for Medical Supplies.

→ On-Demand Manufacturing → to produce medical supplies → face shields, ventilator parts, nasal swabs.

→ Customized Equipment: 3D Printing Enable customization of medical devices

### ⑥ Genomics & Virus tracking

→ Advance genomic sequencing helps to understand spread & mutation

→ GISAID allowed scientists & researchers enhanced global cooperation by sharing genomic data

Pandemic showcase the power of technology from mRNA vaccines to AI-driven diagnostics. These innovations not only helped manage crises but also paved the way for a more resilient & advanced global healthcare system, future Preparedness & Strategies.