

# AA+ COVID-19 Testing Solution

ANYTIME ANYWHERE *Powered by Deepiotics*



## Vision

To provide the easy, affordable, scalable and rapid testing solution for COVID-19 for individual and the health care entities.

We at ESDS help healthcare and other sectors with the cutting edge Artificial Intelligence and Deep Learning technology to solve the enormous problems faced in the industry.

With the help of the experts in the medical field, we have developed a technological solution to identify the COVID-19 patients. Our Deep Learning and advanced AI-driven platform uses the conventional x-ray platform that helps to identify corona infection from Chest x-ray within 5 minutes. With the help of the available samples, we can meet the accuracy level of 100%. However, we believe that our technology would stand at least accuracy of 96%. As we get more samples of the patient over a period of time, the efficiency of platform will increase to 99.50%-100% permanently.

This process of adopting the conventional method along with the integration of AI & Deep Learning, we believe, we can solve the common problem associated with the current slow and sluggish process of testing in both rural and urban areas.

## Advantages over the current process

There are many advantages of adopting the technology solution over the conventional testing kits. Here are the few important advantages over the conventional method



### Reduce Testing Time

We estimate to complete the testing of a patient within 5 minutes. However, we can also perform the bulk testing to reduce the time further.



### Affordable

This solution is very affordable and it would drastically lower the cost (Incl x-ray cost) compared to the current testing process



### Contactless testing

Health professionals do not need to physically contact the patient for the testing and the test result can be forwarded via Email/SMS to the patient or family member.



### Rapid Testing

This can be implementable anytime, anywhere having basic x-ray and computer systems. Hence this solution will help in rapid testing, resulting in control of the spreading of virus.



### Multi-layer testing

This technology can be easily used for the multi-layer testing like during the treatment or before dispatch

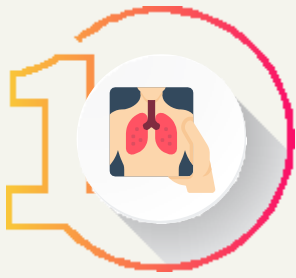


### Easily Scalable and Implementable across the country

As this method use the x-ray and the online software, this solution can be made available across the country (in both Rural and Urban area) that will increase the testing

# How to Use - Process:

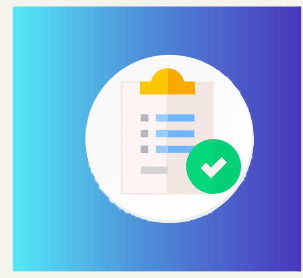
Few simple step process which can be easily adoptable by healthcare worker or doctor.



Collect the x-ray Image



Upload the image



Click Verify and get the result

## More Facts & Information:

- We have analyzed the very complex x-ray of the patient who has multiple lung illness and our system was able to detect Corona with 100% accuracy.
- Developed with help of Radiologists and AI specialists who has collectively around 40+ year experience.
- Detects COVID with following:
  - Peripheral patchy opacity
  - Ground-glass opacity
  - Lower zone opacity

## Points to Consider for the accurate result

- There should not be any text or finger impression on the x-ray image.
- x-ray should be original in black and white color
- There should not be any marking on x-ray
- Chest x-ray should be the front view image.
- The x-ray shouldn't have light reflection if its taken from mobile phone/camera and also it should have proper front angle (perpendicular to x-ray film)
- x-ray shouldn't be tempered by any-mean like folding or other damage.



For more information about the product, please feel free to connect with us on below mentioned detail.



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ISO  
9001 : 2015



ISO/IEC  
27001 : 2013



ISO/IEC  
20000-1 : 2011



Government of India  
Ministry of Health & Family Welfare  
Central Government  
Provider



Govt. of Maharashtra  
Department of Health & Family Welfare  
State Government  
Provider



STQC AUDITED CSP



PCI SECUR TY  
CERT F ED



TIER 3  
DATACENTER



UK PATENTED  
CLOUD  
TECHNOLOGY



US PATENTED  
CLOUD  
TECHNOLOGY

## ESDS 4 B's

by 2024

**1Billion**  
Touching lives  
of 1B+ People

**1Billion**  
Connecting 1B+  
Smart Devices

**1Billion**  
Unicorn in make in  
India Advanced  
Technology

**1Billion**  
Growing 1B+  
Trees