

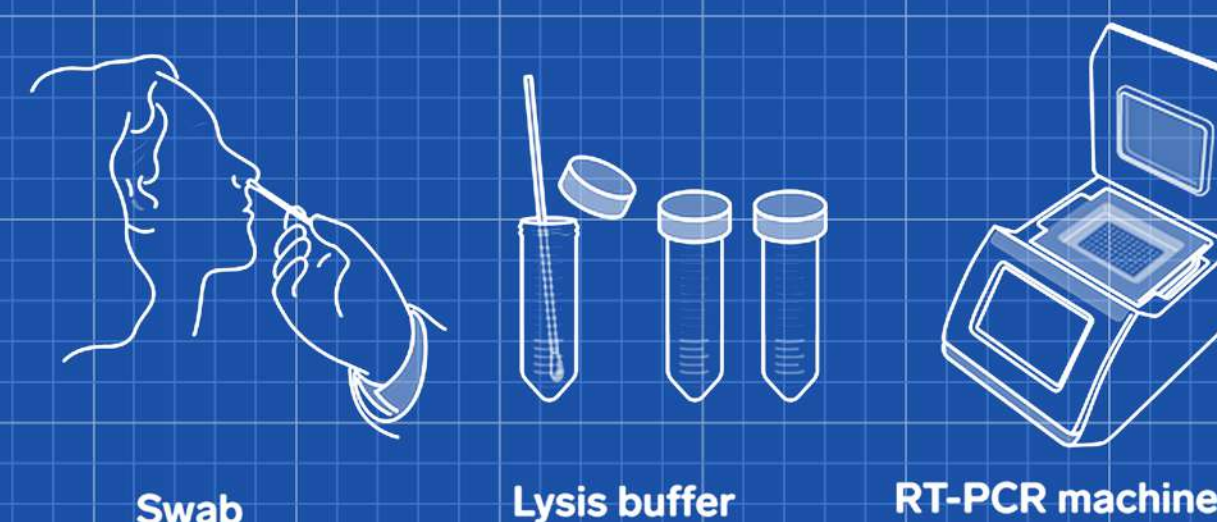
"TECHNIX-2021- PROJECT POSTER PRESENTATION"

B-05 COVID - 19 DETECTION FROM CHEST X-RAY IMAGE USING DEEP LEARNING

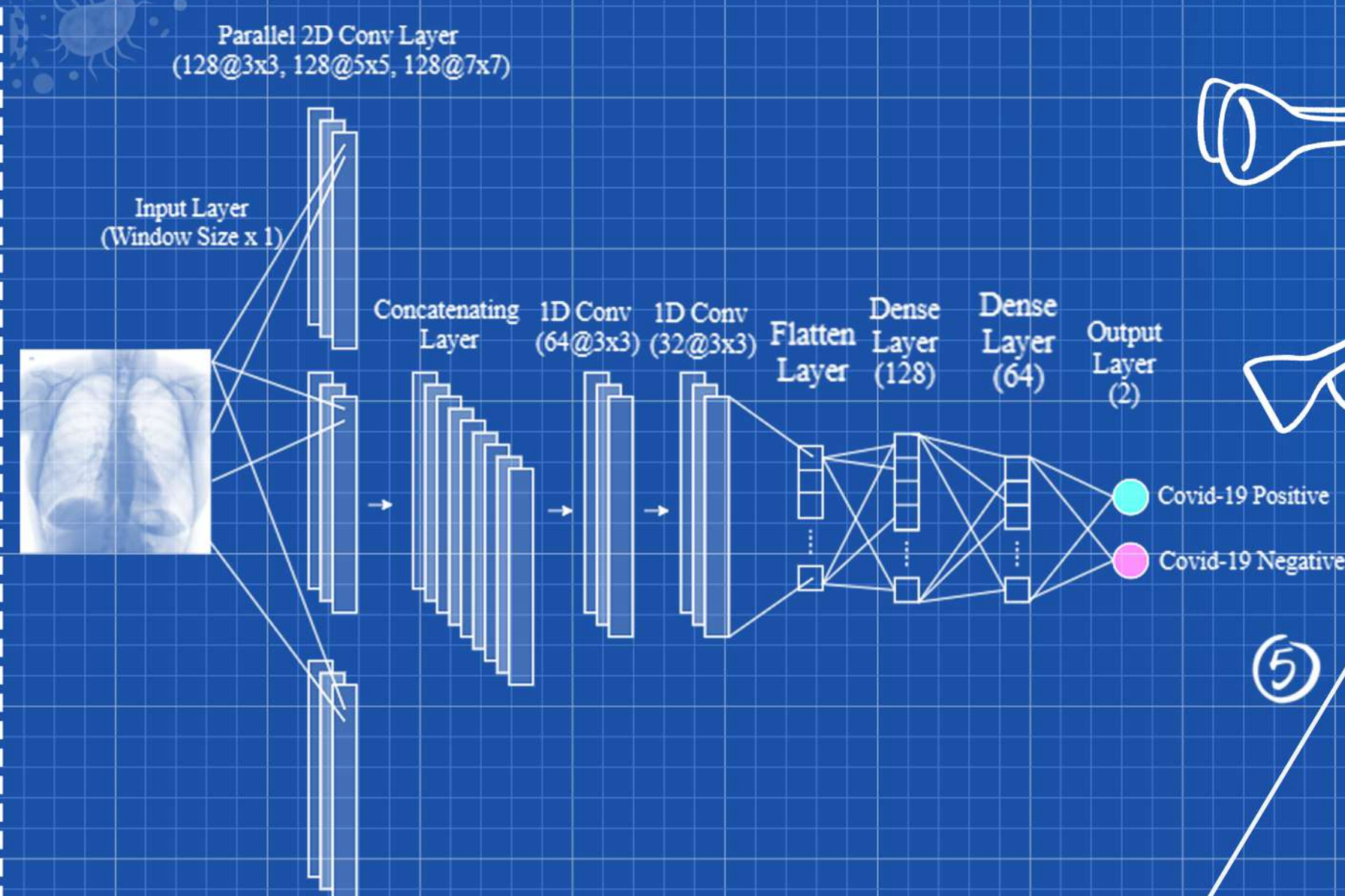
EXISTING SYSTEM :

RT-PCR

Qualitative detection of nucleic acid from SARS-CoV-2 in upper and lower respiratory specimens (such as nasopharyngeal or oropharyngeal swabs).



TRAINING CNN MODEL :



Convolutional Neural Network Architecture :

A Convolutional neural network (CNN) is a neural network that has one or more convolutional layers and are used mainly for image processing, classification, segmentation and also for other auto correlated data.

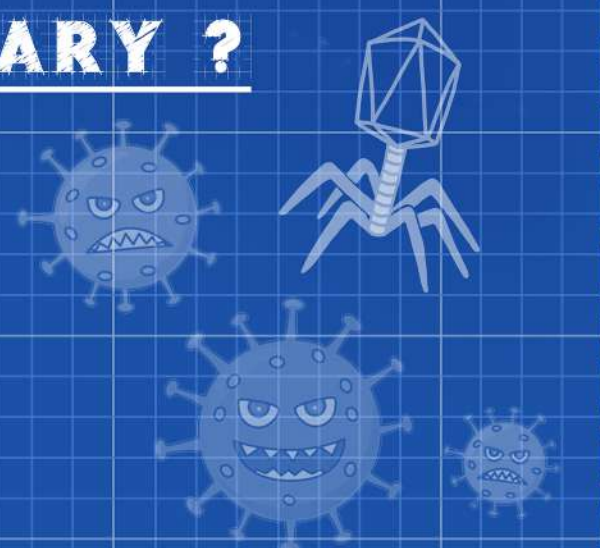


EXPECTED OUTCOME :

It is demonstrated that deep learning with CNNs may have significant effects on the automatic detection and automatic extraction of essential features from X-ray images, related to the diagnosis of the Covid-19.

WHY EARLY DIAGNOSIS IS NECESSARY ?

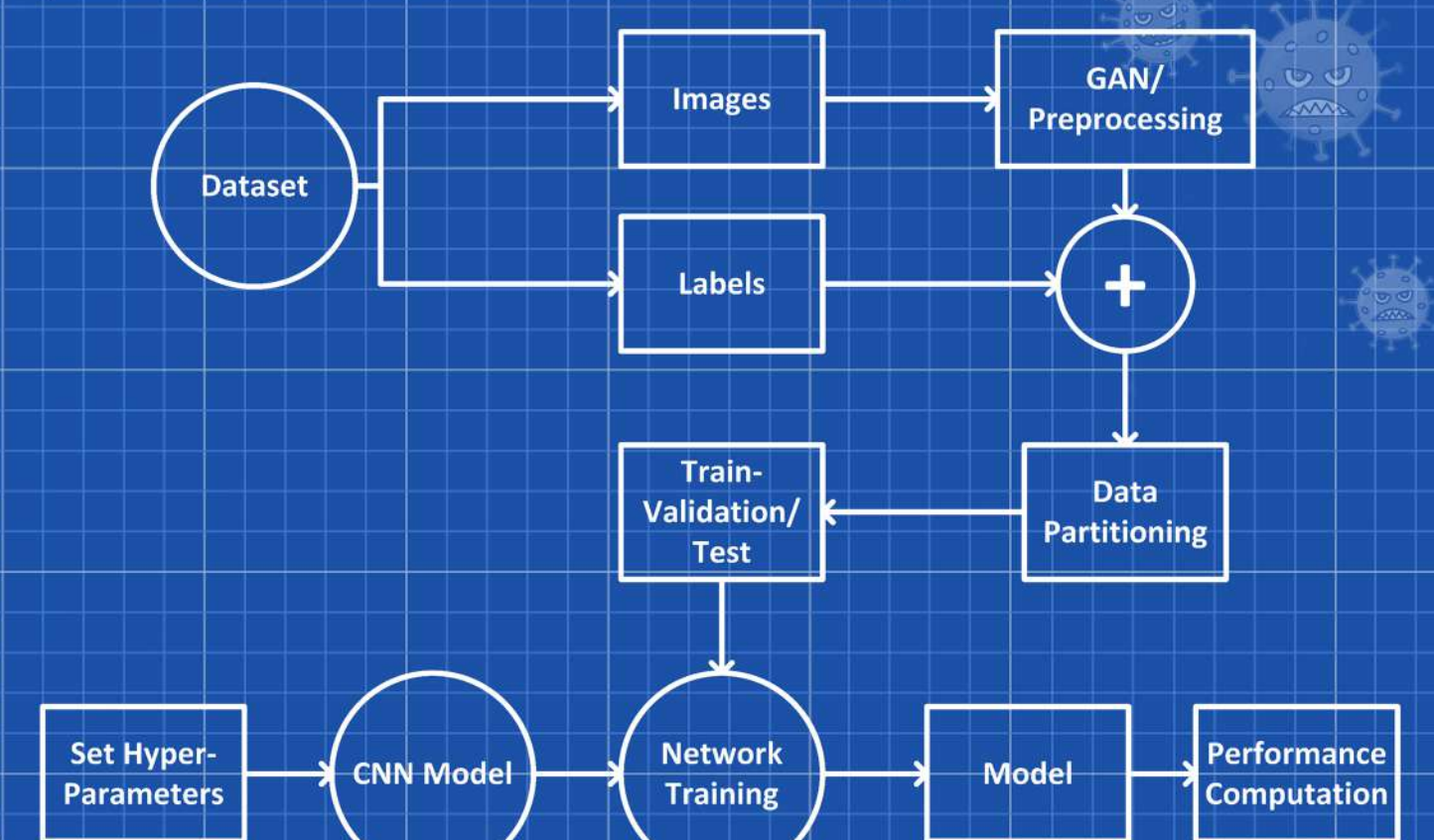
The early and automatic diagnosis of Covid-19 may be beneficial for countries for timely referral of the patient to quarantine, rapid intubation of serious cases in specialized hospitals, and monitoring of the spread of the disease.



OBJECTIVES :

- To design and develop a Covid-19 detection system which can help in quick and accurate results.
- To establish an early screening model to distinguish Covid-19 infected and Healthy cases.
- To overcome the problem of lack of specialized physicians in remote villages.
- To build a real-time application useful for the doctors, patients and the rest of the world.

WORKING DESIGN :



Developing a Computer Aided Detection (CAD) tool for iterative Covid-19 detection, along with the adequate description of its forming techniques which includes feature selection, extraction and classification of neuro images. It takes a chest X-Ray Image as input and outputs a prediction among two classes: Normal/COVID-19 negative and COVID-19 positive using the novel Deep Neural Network based model.

PO's Mapped :

- PO - 2
- PO - 4
- PO - 5
- PO - 6
- PO - 7



Presented By Batch - 05 :

- | | |
|-------------------|------------|
| Thushar Gowda M S | 4MH17CS110 |
| Sushith S Jhenkar | 4MH17CS104 |
| Suraj T C | 4MH17CS103 |
| VidyaShree M S | 4MH17CS115 |

Under the Guidance :
Prof. Pratap M S

