



## **ISTE DEEP LEARNING SMP Week 3 Assignment**

### **Problem Statement**

We will be creating a disease classifier using CNN. The dataset consists of images of the x rays of the lungs of covid patients and healthy people.

Using the concept learnt in the past two weeks, we want you to create the architecture of the model using Keras.

A notebook has been created and the link will be attached below. This week try to experiment with the model structure but be sure to incorporate atleast one Conv2d and MaxPooling2d layers (considering convolution and pooling together as a layer).

The notebook has all further instructions. Do read the comments and other text specified that is meant to help you understand the code.

We will be using kaggle this time around, so you all will have to create an account on kaggle. Go to the link, copy the notebook and edit it. You will find a Task under this section too, where you need to submit your version of the notebook.

The notebook under this link named ISTE-deep-learning-sgp-week-3:

<https://www.kaggle.com/darthroco31415/covidistesgp/code>

Copy and edit it suitably

TIP: In kaggle under settings and accelerator, choose GPU at the beginning of the session (session restarts if accelerator is changed) for faster training times. Turn off GPU at end of the session.