**CV Project HINTS:**

Chest Xrays Detection using AI algo and neural network concept

1. Loading dataset with all of the required files and folders.
2. Containing train image of pneumonia and normal chest xray
3. Grab the path to all images then initialize out list of images in array
4. Loading of the images and then resizing it to 128\*128 pixel and then append image one by one to the list.
5. Then each of the normal and pneumonia image was labeled for further use.
6. By considering pneumonia as 1 and normal as 0, we scaled the data in range of [0,1]
7. In config.py, we specified the batch size of 64 and number of epochs 50 with LR of 1e-2 having best result as shown in the plot.
8. By specifying the batch size and number of epochs, we starting training our dataset.
9. In pneumoniadetectionnet.py, we are making a CNN having three hidden layers.
10. In config.py, we are giving the path for loading normal and pneumonia images
11. CNN will be used to detect normal and pneumonia xrays in the images. (For Training)
12. Predict.py will have produce a directory named as example where result images are placed. We are taking random 50 images and classifying them into normal and pneumonia.
13. Finally, a result with 74 % accuracy was achieved.