

1. Description of the Pneumonia Dataset:

```
labels = ['PNEUMONIA', 'NORMAL']
img_size = 150
def get_training_data(data_dir):
    data = []
    for label in labels:
        path = os.path.join(data_dir, label)
        class_num = labels.index(label)
        img in os.listdir(path):
            try:
                img_arr = cv2.imread(os.path.join(path, img), cv2.IMREAD_GRAYSCALE)
                resized_arr = cv2.resize(img_arr, (img_size, img_size))
                # Reshaping images to preferred size
                data.append([resized_arr, class_num])
            except Exception as e:
                print(e)
    return np.array(data)
```

2. Loading the Dataset:

```
train =
get_training_data('../input/chest-xray-pneumonia/chest_xray/train')
test =
get_training_data('../input/chest-xray-pneumonia/chest_xray/test')
val =
get_training_data('../input/chest-xray-pneumonia/chest_xray/val')
```