Data Collection and Preprocessing Phase

Date	2 Dec 2024
Team ID	TMID739650
Project Title	ADVANCED COVID-19 DETECTION USING LUNG X-RAYS BY DEEP LEARNING
Maximum Marks	6 Marks

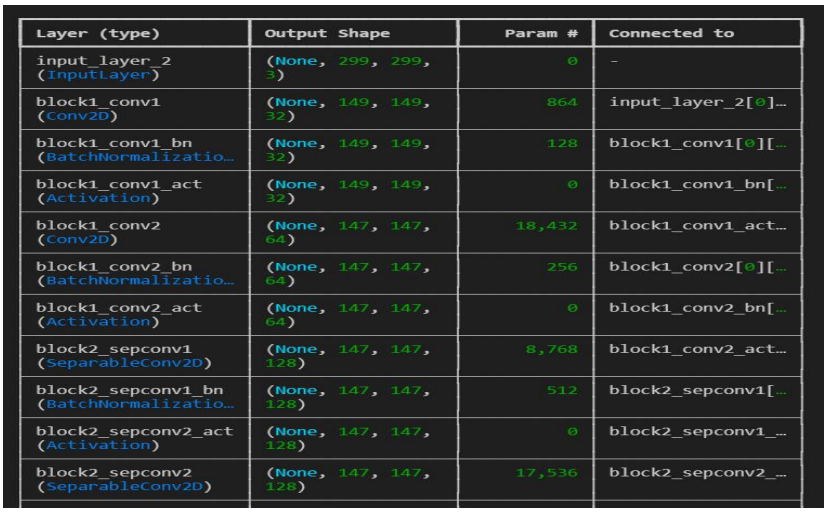
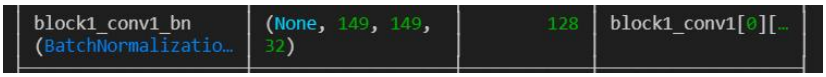
Preprocessing Template

The images will be preprocessed by resizing, normalizing, augmenting, denoising, adjusting contrast, detecting edges, converting color space, cropping, batch normalizing, and whitening data. These steps will enhance data quality, promote model generalization, and improve convergence during neural network training, ensuring robust and efficient performance across various computer vision tasks.

Section	**Description**

Data Overview	`Found 33866 images belonging to 4 classes.`
	`Found 8464 images belonging to 4 classes.`
	`{'COVID': 0, 'Lung_Opacity': 1, 'Normal': 2, 'Viral Pneumonia': 3}`
	`{'COVID': 0, 'Lung_Opacity': 1, 'Normal': 2, 'Viral Pneumonia': 3}`
	`Found 33866 training images.`
	`Found 8464 validation images.`
	
	`Model: "functional_2"`

Resizing	-
Normalization	-
Data Augmentation	-
Denoising	-

Edge Detection	-
Color Space Conversion	-
Image Cropping	-
Batch Normalization	-
Data Preprocessing Code Screenshots	
Loading Data	
Resizing	-
Normalization	
Data Augmentation	-
Denoising	-

Edge Detection	-
Color Space Conversion	-
Image Cropping	-
Batch Normalization