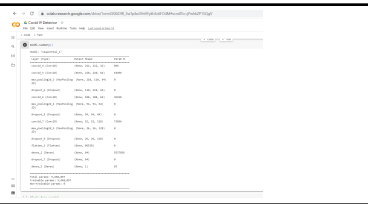
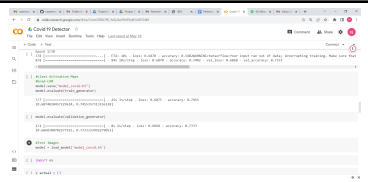


Project Development Phase Model Performance Test

Date	13 May 2023
Team ID	NM2023TMID17493
Project Name	CovidVision: Advanced COVID-19 Detection from Lung X-rays with Machine Learning or Deep Learnings

Model Performance Testing:

Project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-Total params: 5,668,097 Trainable params: 5,668,097 Non-trainable params: 0	
2.	Accuracy	Training Accuracy - accuracy: 0.7455 Validation Accuracy - accuracy: 0.7333	

Accuracy:



```

Epoch 1/10
7/8 [=====>....] - ETA: 10s - loss: 0.6870 - accuracy: 0.5402WARNING:tensorflow:Your input ran out of data; interrupting training. Make sure that
8/8 [=====] - 84s 10s/step - loss: 0.6870 - accuracy: 0.5402 - val_loss: 0.6868 - val_accuracy: 0.7333

#Class Activation Maps
#Grad-CAM
model.save("model_covid.h5")
model.evaluate(train_generator)

7/7 [=====] - 25s 3s/step - loss: 0.6875 - accuracy: 0.7455
[0.6874810457229614, 0.7455357313156128]

model.evaluate(validation_generator)

2/2 [=====] - 8s 2s/step - loss: 0.6868 - accuracy: 0.7333
[0.6868308782577515, 0.7333333492279053]

#Test Images
model = load_model('model_covid.h5')


import os

v_actual = []

```

Model Summary:

← → ↻ colab.research.google.com/drive/1omrGRXiOfR_3wTp4w39n9Yykh5c6FO4M#scrollTo=jPwhkZP15QgV

 Covid 19 Detector ☆

File Edit View Insert Runtime Tools Help [Last saved at May 18](#)

+ Code + Text

```
model.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d_4 (Conv2D)	(None, 222, 222, 32)	896
conv2d_5 (Conv2D)	(None, 220, 220, 64)	18496
max_pooling2d_3 (MaxPooling 2D)	(None, 110, 110, 64)	0
dropout_4 (Dropout)	(None, 110, 110, 64)	0
conv2d_6 (Conv2D)	(None, 108, 108, 64)	36928
max_pooling2d_4 (MaxPooling 2D)	(None, 54, 54, 64)	0
dropout_5 (Dropout)	(None, 54, 54, 64)	0
conv2d_7 (Conv2D)	(None, 52, 52, 128)	73856
max_pooling2d_5 (MaxPooling 2D)	(None, 26, 26, 128)	0
dropout_6 (Dropout)	(None, 26, 26, 128)	0
flatten_1 (Flatten)	(None, 86528)	0
dense_2 (Dense)	(None, 64)	5537856
dropout_7 (Dropout)	(None, 64)	0
dense_3 (Dense)	(None, 1)	65

=====
Total params: 5,668,097
Trainable params: 5,668,097
Non-trainable params: 0