Project Development Phase Model Performance Test

Date	19 November 2022	
Team ID	PNT2022TMID35796	
Project Name	Project - Emerging Methods for Early	
	Detection Of Forest Fires	
Maximum Marks	10 Marks	

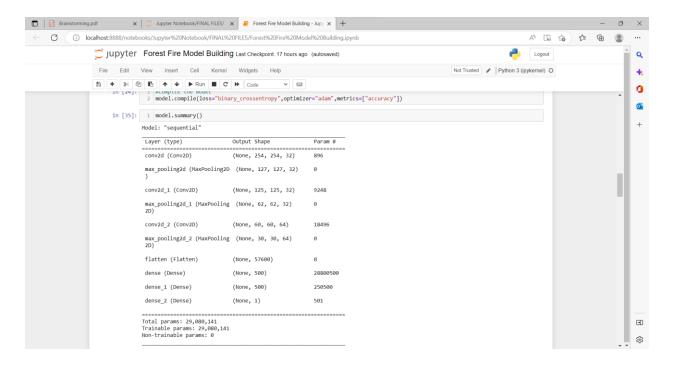
Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Attached below	
2.	Accuracy	Training Accuracy - 0.9654 Validation Accuracy - 0.991	

Model Summary:

Screenshot:



Values:

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 254, 254, 32)	896
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 127, 127, 32)	0
conv2d_1 (Conv2D)	(None, 125, 125, 32)	9248
<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(None, 62, 62, 32)	0
conv2d_2 (Conv2D)	(None, 60, 60, 64)	18496
<pre>max_pooling2d_2 (MaxPooling 2D)</pre>	(None, 30, 30, 64)	0
flatten (Flatten)	(None, 57600)	0
dense (Dense)	(None, 500)	28800500
dense_1 (Dense)	(None, 500)	250500
dense_2 (Dense)	(None, 1)	501

Total params: 29,080,141 Trainable params: 29,080,141

Non-trainable params: 0

Accuracy:

```
Epoch 1/25
racy: 0.6697 - val loss: 0.3201 - val accuracy: 0.9167
racy: 0.8730 - val loss: 0.0686 - val accuracy: 0.9750
Epoch 3/25
racy: 0.9145 - val loss: 0.0482 - val accuracy: 1.0000
Epoch 4/25
racy: 0.9053 - val loss: 0.0545 - val_accuracy: 0.9833
Epoch 5/25
racy: 0.9145 - val loss: 0.0656 - val accuracy: 0.9917
Epoch 6/25
racy: 0.9169 - val loss: 0.0337 - val accuracy: 0.9917
Epoch 7/25
racy: 0.9330 - val loss: 0.0705 - val accuracy: 0.9750
Epoch 8/25
racy: 0.8868 - val loss: 0.1961 - val accuracy: 0.9583
Epoch 9/25
racy: 0.9284 - val loss: 0.0156 - val accuracy: 1.0000
Epoch 10/25
racy: 0.9169 - val loss: 0.1604 - val accuracy: 0.8833
Epoch 11/25
racy: 0.9192 - val loss: 0.0380 - val accuracy: 0.9917
Epoch 12/25
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racy: 0.9400 - val loss: 0.0481 - val accuracy: 1.0000
Epoch 13/25
racy: 0.9376 - val loss: 0.0370 - val accuracy: 1.0000
Epoch 14/25
racy: 0.9607 - val loss: 0.0391 - val accuracy: 1.0000
Epoch 15/25
racy: 0.9538 - val loss: 0.0212 - val accuracy: 1.0000
Epoch 16/25
racy: 0.9561 - val loss: 0.0197 - val accuracy: 1.0000
Epoch 17/25
racy: 0.9677 - val loss: 0.0174 - val accuracy: 1.0000
Epoch 18/25
racy: 0.9654 - val loss: 0.1707 - val accuracy: 0.9333
Epoch 19/25
racy: 0.9238 - val loss: 0.0380 - val accuracy: 0.9750
Epoch 20/25
racy: 0.9400 - val loss: 0.0328 - val_accuracy: 0.9917
Epoch 21/25
racy: 0.9584 - val loss: 0.0205 - val accuracy: 1.0000
Epoch 22/25
racy: 0.9515 - val loss: 0.0678 - val_accuracy: 0.9833
Epoch 23/25
racy: 0.9469 - val loss: 0.0272 - val accuracy: 1.0000
Epoch 24/25
racy: 0.9538 - val loss: 0.0234 - val accuracy: 0.9917
Epoch 25/25
racy: 0.9654 - val loss: 0.0396 - val accuracy: 0.9917
```