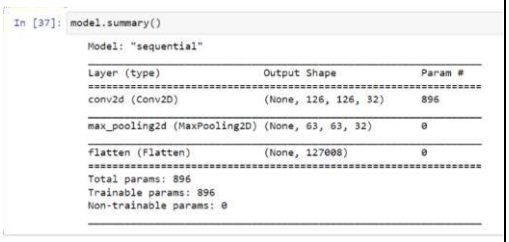
Project Development Phase

Model Performance Test

Date	23 November 2022
Team ID	PNT2022TMID22350
Project Name	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	Total params: 896 Trainable params: 896 Non-trainable params: 0	
2.	Accuracy	Training Accuracy – 12.68 Validation Accuracy – 13.07	

Model Summary

```
In [37]: model.summary()
```

```
Model: "sequential"
_________________________________________________________________
Layer (type)                 Output Shape              Param #
=================================================================
conv2d (Conv2D)              (None, 126, 126, 32)      896
_________________________________________________________________
max_pooling2d (MaxPooling2D) (None, 63, 63, 32)        0
_________________________________________________________________
flatten (Flatten)            (None, 127008)            0
=================================================================
Total params: 896
Trainable params: 896
Non-trainable params: 0
_________________________________________________________________
```

Accuracy

```
/usr/local/lib/python3.7/dist-packages/keras/optimizers/optimizer_v2/gradient_descen
  super(SGD, self).__init__(name, **kwargs)
Epoch 1/30
3/3 [==============================] - 72s 22s/step - loss: 0.2371 - acc: 0.9089 - v
Epoch 2/30
3/3 [==============================] - 65s 21s/step - loss: 0.1964 - acc: 0.9193 - v
Epoch 3/30
3/3 [==============================] - 62s 20s/step - loss: 0.1813 - acc: 0.9141 - v
Epoch 4/30
3/3 [==============================] - 68s 23s/step - loss: 0.2045 - acc: 0.9089 - v
Epoch 5/30
3/3 [==============================] - 65s 22s/step - loss: 0.1895 - acc: 0.9036 - v
Epoch 6/30
3/3 [==============================] - 65s 22s/step - loss: 0.1743 - acc: 0.9271 - v
Epoch 7/30
3/3 [==============================] - 65s 21s/step - loss: 0.1461 - acc: 0.9427 - v
Epoch 8/30
3/3 [==============================] - 46s 13s/step - loss: 0.1794 - acc: 0.9318 - v
Epoch 9/30
3/3 [==============================] - 65s 21s/step - loss: 0.1270 - acc: 0.9531 - v
Epoch 10/30
3/3 [==============================] - 67s 21s/step - loss: 0.1712 - acc: 0.9479 - v
Epoch 11/30
Saving...
                             ======] - 63s 21s/step - loss: 0.1357 - acc: 0.9505 - v
                             ======] - 65s 22s/step - loss: 0.1483 - acc: 0.9505 - v
Epoch 13/30
3/3 [==============================] - 67s 23s/step - loss: 0.1355 - acc: 0.9375 - v
Epoch 14/30
3/3 [==============================] - 47s 22s/step - loss: 0.0927 - acc: 0.9659 - v
Epoch 15/30
3/3 [==============================] - ETA: 0s - loss: 0.1027 - acc: 0.9609

 Reached the Destination!
3/3 [==============================] - 65s 22s/step - loss: 0.1027 - acc: 0.9609 - v
311
```