

EARLY DETECTION OF FOREST FIRE USING DEEP LEARNING

Performance Testing

Team ID	PNT2022TMID03442
Project Name	Emerging Methods for Early Detection of Forest Fires

Model:-

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 254, 254, 32)	896
max_pooling2d (MaxPooling2D)	(None, 127, 127, 32)	0
flatten (Flatten)	(None, 516128)	0
dense (Dense)	(None, 300)	154838700
dense_1 (Dense)	(None, 200)	60200
dense_2 (Dense)	(None, 1)	201
Total params: 154,899,997		
Trainable params: 154,899,997		
Non-trainable params: 0		

Accuracy value:-

```
plt.figure(0)

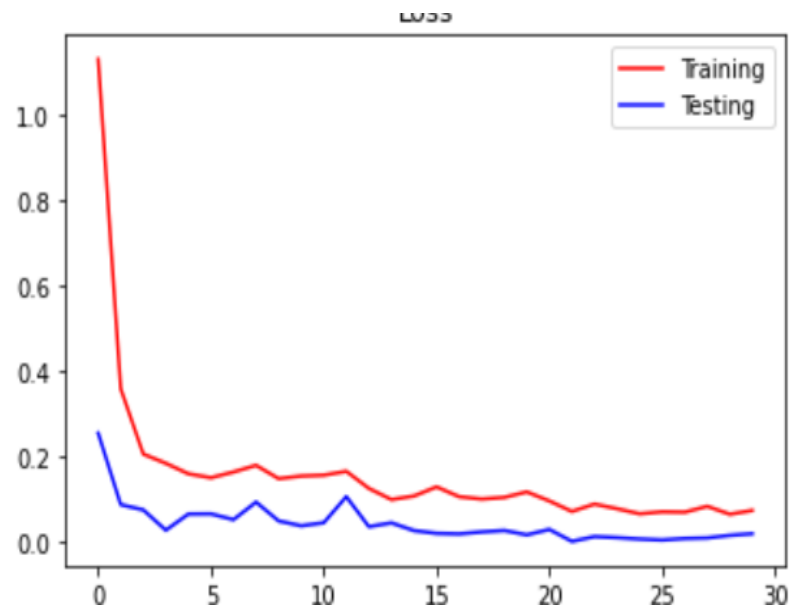
plt.title("Loss")

plt.plot(hist.history['loss'], 'r', label='Training')

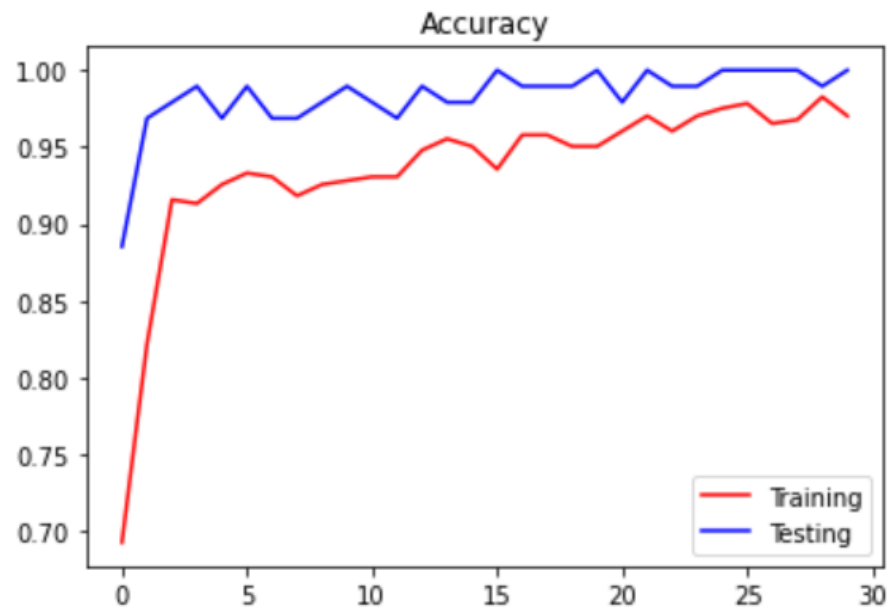
plt.plot(hist.history['val_loss'], 'b', label='Testing')

plt.legend()

plt.show()
```



```
plt.figure(1)
plt.title("Accuracy")
plt.plot(hist.history['accuracy'], 'r', label='Training')
plt.plot(hist.history['val_accuracy'], 'b', label='Testing')
plt.legend()
plt.show()
```



Confusion Matrix:-

