

EARLY DETECTION OF FOREST FIRE USING DEEP LEARNING

Performance Testing

| | |
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| Team ID | PNT2022TMID54434 |
| 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)

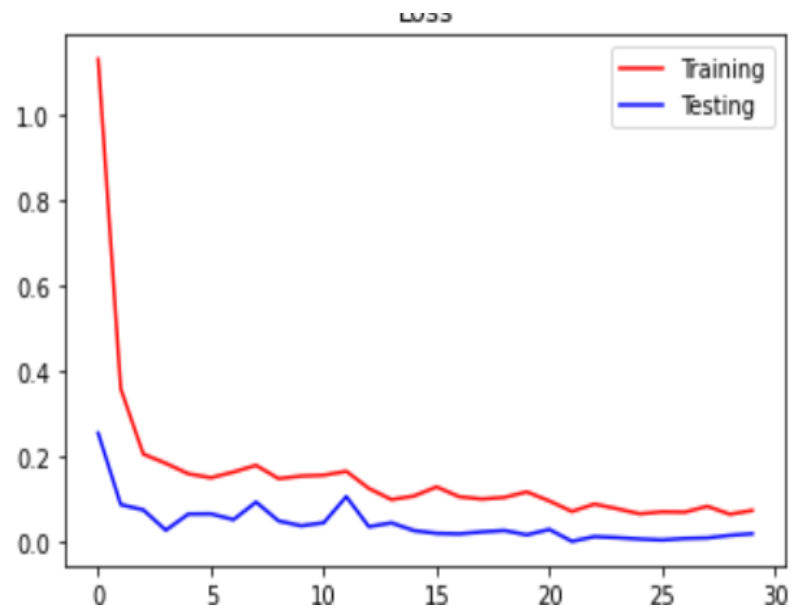
plt.title("Loss")

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

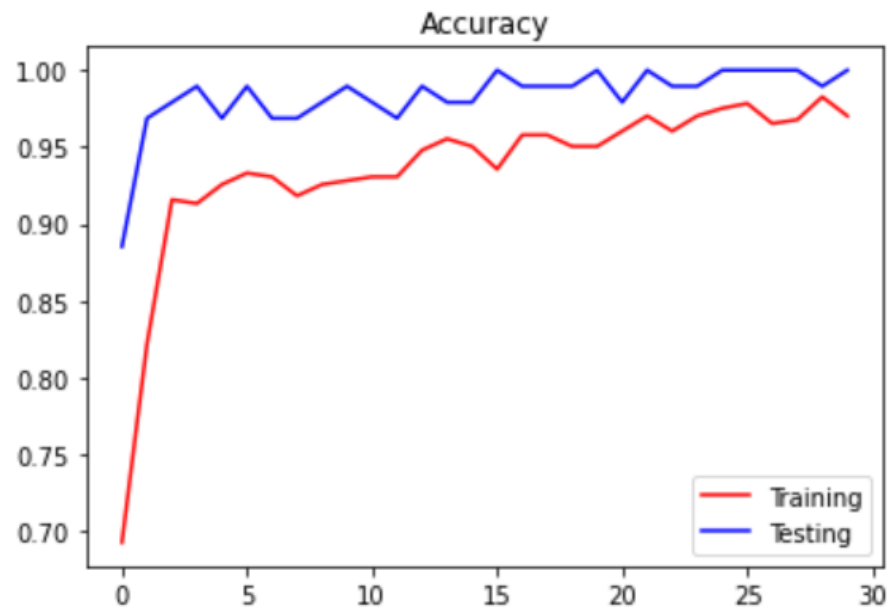
plt.plot(hist.history['val_loss'], 'b', label='Testing')

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:-

