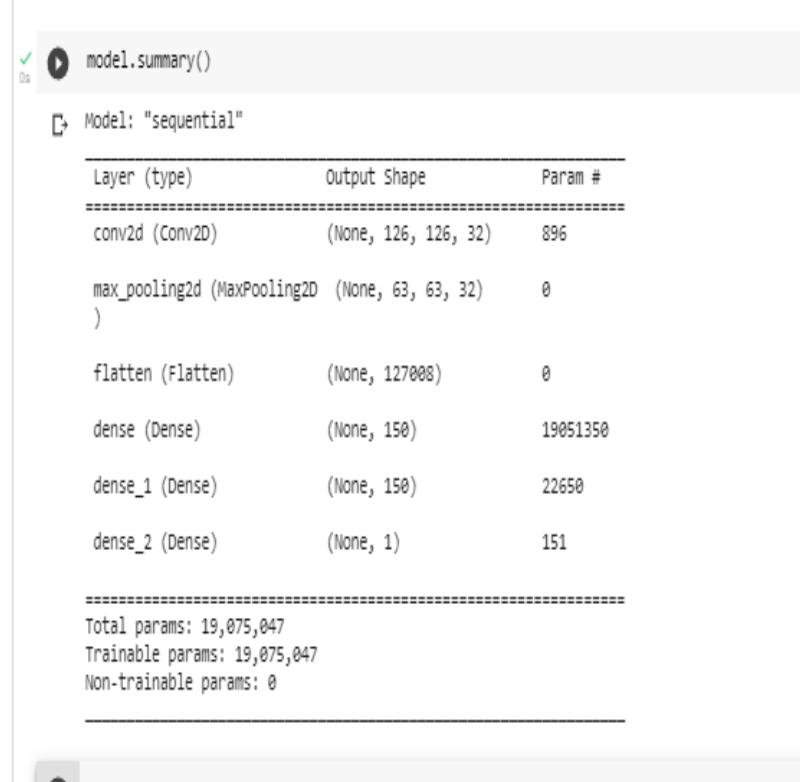
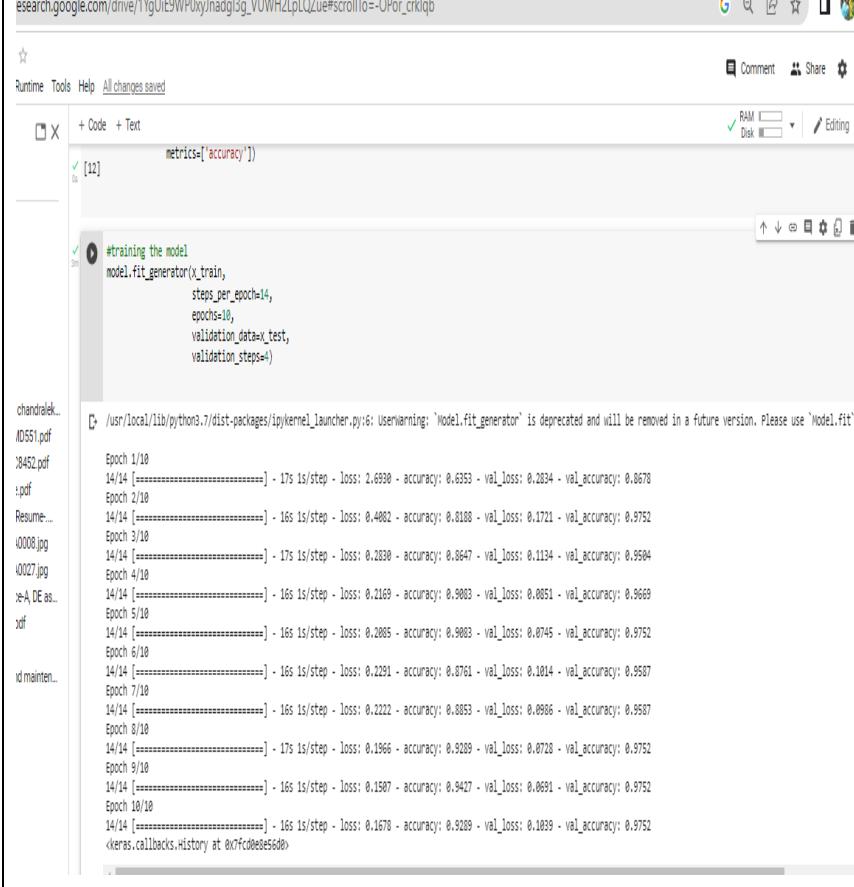


**Project Development Phase**  
**Model Performance Test**

Team ID	PNT2022TMID33183
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	10 Marks

**Model Performance Testing:**

No.	Parameter	Values	Screenshot
1.	Model Summary	Total params:19,075,047 Trainable params:19,075,047 Non-trainable params:0	 <pre> 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 dense (Dense)     (None, 150)        19051350 dense_1 (Dense)   (None, 150)        22650 dense_2 (Dense)   (None, 1)         151 +-----+ Total params: 19,075,047 Trainable params: 19,075,047 Non-trainable params: 0 </pre>

2.	Accuracy	<p><b>Training Accuracy – 0.9289</b></p> <p><b>Validation Accuracy -0.9752</b></p>	 <pre> Runtime Tools Help All changes saved + Code + Text metrics=['accuracy'])  #training the model model.fit_generator(x_train,                     steps_per_epoch=14,                     epochs=10,                     validation_data=x_test,                     validation_steps=4)  Epoch 1/10 14/14 [=====] - 17s 1s/step - loss: 2.6930 - accuracy: 0.6353 - val_loss: 0.2834 - val_accuracy: 0.8670 Epoch 2/10 14/14 [=====] - 16s 1s/step - loss: 0.4082 - accuracy: 0.8188 - val_loss: 0.1721 - val_accuracy: 0.9752 Epoch 3/10 14/14 [=====] - 17s 1s/step - loss: 0.2830 - accuracy: 0.8647 - val_loss: 0.1134 - val_accuracy: 0.9584 Epoch 4/10 14/14 [=====] - 16s 1s/step - loss: 0.2169 - accuracy: 0.8083 - val_loss: 0.0851 - val_accuracy: 0.9669 Epoch 5/10 14/14 [=====] - 16s 1s/step - loss: 0.2085 - accuracy: 0.8083 - val_loss: 0.0745 - val_accuracy: 0.9752 Epoch 6/10 14/14 [=====] - 16s 1s/step - loss: 0.2291 - accuracy: 0.8761 - val_loss: 0.1014 - val_accuracy: 0.9587 Epoch 7/10 14/14 [=====] - 16s 1s/step - loss: 0.2222 - accuracy: 0.8853 - val_loss: 0.0886 - val_accuracy: 0.9587 Epoch 8/10 14/14 [=====] - 17s 1s/step - loss: 0.1966 - accuracy: 0.9289 - val_loss: 0.0728 - val_accuracy: 0.9752 Epoch 9/10 14/14 [=====] - 16s 1s/step - loss: 0.1507 - accuracy: 0.9427 - val_loss: 0.0691 - val_accuracy: 0.9752 Epoch 10/10 14/14 [=====] - 16s 1s/step - loss: 0.1678 - accuracy: 0.9289 - val_loss: 0.1039 - val_accuracy: 0.9752 &lt;keras.callbacks.History at 0x7fc0ee8e56d0&gt; </pre>
3.	Confidence Score (Only Yolo Projects)	<p>Class Detected - nill</p> <p>Confidence Score -nill</p>	No YOLO