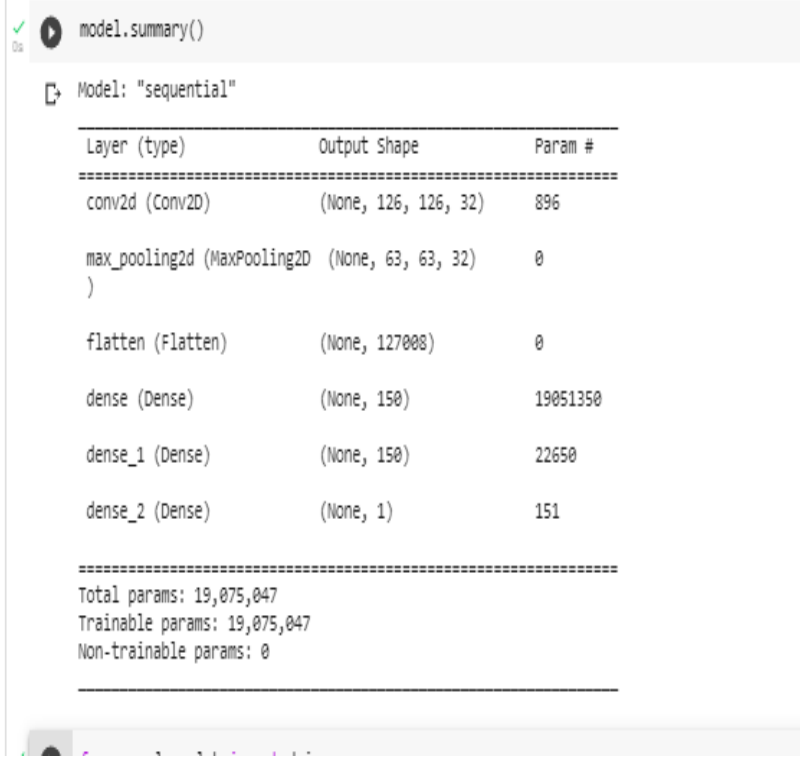
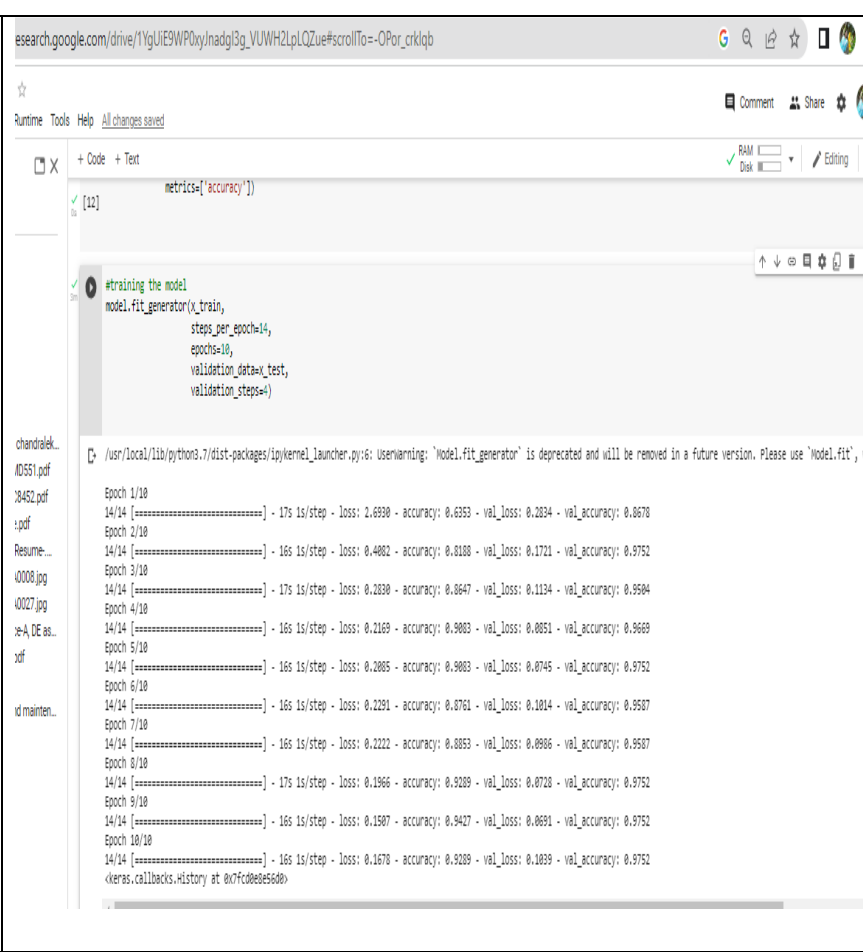


Project Development Phase Model Performance Test

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>Training Accuracy – 0.9289</p> <p>Validation Accuracy -0.9752</p>	 <p>The screenshot shows a Google Drive link to a Jupyter Notebook: research.google.com/drive/1YgUe9WP0xyInadgl3g_VUWH2LpLQZue#scrollTo=-OPor_crlkqb. The notebook code defines a metric and trains a model using <code>model.fit_generator</code>. The terminal output shows the training progress over 10 epochs, with accuracy and loss values for both training and validation sets.</p> <pre> metrics={'accuracy'}) [12] #training the model model.fit_generator(x_train, steps_per_epoch=14, epochs=10, validation_data=x_test, validation_steps=4) /usr/local/lib/python3.7/dist-packages/ipynb_launcher.py:6: UserWarning: 'model.fit_generator' is deprecated and will be removed in a future version. Please use 'model.fit', Epoch 1/10 14/14 [=====] - 17s 1s/step - loss: 2.6930 - accuracy: 0.6353 - val_loss: 0.2034 - val_accuracy: 0.8678 Epoch 2/10 14/14 [=====] - 16s 1s/step - loss: 0.4802 - accuracy: 0.8188 - val_loss: 0.1721 - val_accuracy: 0.9752 Epoch 3/10 14/14 [=====] - 17s 1s/step - loss: 0.2030 - accuracy: 0.8647 - val_loss: 0.1134 - val_accuracy: 0.9504 Epoch 4/10 14/14 [=====] - 16s 1s/step - loss: 0.2169 - accuracy: 0.9083 - val_loss: 0.0851 - val_accuracy: 0.9669 Epoch 5/10 14/14 [=====] - 16s 1s/step - loss: 0.2085 - accuracy: 0.9083 - 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: 0.0906 - 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 <keras.callbacks.History at 0x7fc0e8e56db0> </pre>
3.	Confidence Score (Only Yolo Projects)	<p>Class Detected - nill</p> <p>Confidence Score -nill</p>	No YOLO