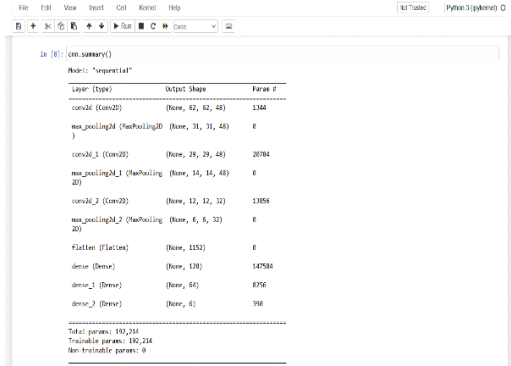
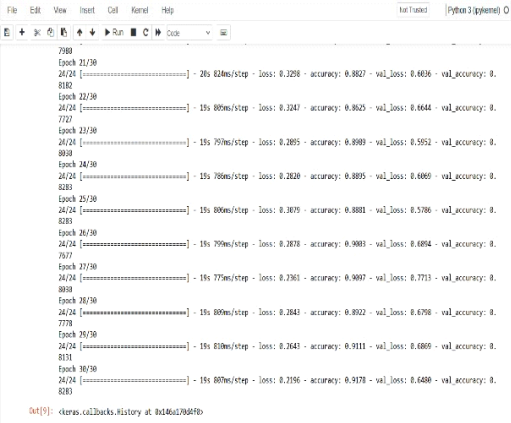


**Project
Development
PhaseModel
Performance
Test**

Date	25 November 2022
Team ID	PNT2022TMID49008
Project Name	Project - NATURAL DISASTERS INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELLIGENCE
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	3 convolutional layerarchitecture 1 fully connected layerSoftmax at the end	 <pre> In [8]: cm.summary() Model: "sequential" Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 32, 32, 48) 1344 max_pooling2d (MaxPooling2D) (None, 16, 16, 48) 0 conv2d_1 (Conv2D) (None, 16, 16, 48) 20784 max_pooling2d_1 (MaxPooling2D) (None, 8, 8, 48) 0 conv2d_2 (Conv2D) (None, 8, 8, 32) 13056 max_pooling2d_2 (MaxPooling2D) (None, 4, 4, 32) 0 flatten (Flatten) (None, 1152) 0 dense (Dense) (None, 128) 147584 dense_1 (Dense) (None, 64) 8756 dense_2 (Dense) (None, 6) 396 Total params: 192,216 Trainable params: 192,216 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy - 0.9178 Validation Accuracy -0.8283	 <pre> Epoch 21/30 24/24 [=====] - 26s 828ms/step - loss: 0.2258 - accuracy: 0.9827 - val_loss: 0.6036 - val_accuracy: 0.8160 Epoch 22/30 24/24 [=====] - 15s 809ms/step - loss: 0.3247 - accuracy: 0.9625 - val_loss: 0.6644 - val_accuracy: 0.7727 Epoch 23/30 24/24 [=====] - 15s 797ms/step - loss: 0.2855 - accuracy: 0.9989 - val_loss: 0.5852 - val_accuracy: 0.8818 Epoch 24/30 24/24 [=====] - 15s 788ms/step - loss: 0.2828 - accuracy: 0.9895 - val_loss: 0.6069 - val_accuracy: 0.8283 Epoch 25/30 24/24 [=====] - 15s 806ms/step - loss: 0.3879 - accuracy: 0.9881 - val_loss: 0.5786 - val_accuracy: 0.8283 Epoch 26/30 24/24 [=====] - 15s 799ms/step - loss: 0.2878 - accuracy: 0.9903 - val_loss: 0.6854 - val_accuracy: 0.7977 Epoch 27/30 24/24 [=====] - 15s 775ms/step - loss: 0.2361 - accuracy: 0.9907 - val_loss: 0.7713 - val_accuracy: 0.8818 Epoch 28/30 24/24 [=====] - 15s 888ms/step - loss: 0.2843 - accuracy: 0.9922 - val_loss: 0.6798 - val_accuracy: 0.7778 Epoch 29/30 24/24 [=====] - 15s 810ms/step - loss: 0.2643 - accuracy: 0.9111 - val_loss: 0.6869 - val_accuracy: 0.8131 Epoch 30/30 24/24 [=====] - 15s 887ms/step - loss: 0.2396 - accuracy: 0.9178 - val_loss: 0.6488 - val_accuracy: 0.8283 In [9]: cm.summary() </pre>