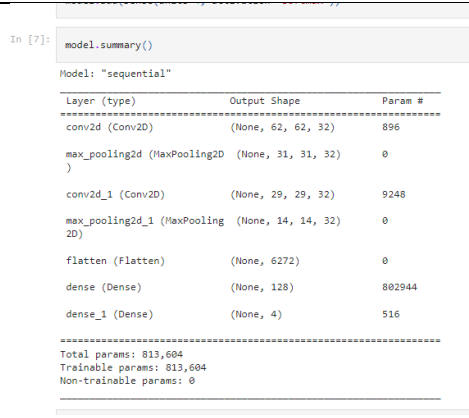



Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID00314
Project Name	Project – Natural Disaster 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	Total params: 813,604 Trainable params:813,604 Non-Trainable params:0	 <pre> In [7]: model.summary() Model: "sequential" Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 62, 62, 32) 896 max_pooling2d (MaxPooling2D) (None, 31, 31, 32) 0 conv2d_1 (Conv2D) (None, 29, 29, 32) 9248 max_pooling2d_1 (MaxPooling (None, 14, 14, 32) 0 2D) flatten (Flatten) (None, 6272) 0 dense (Dense) (None, 128) 802944 dense_1 (Dense) (None, 4) 516 ----- Total params: 813,604 Trainable params: 813,604 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy – 0.5282 Validation Accuracy - 0.7025	 <pre> [0]: model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=['accuracy']) [1]: model.fit(x_train, y_train, epochs=100, validation_data=(x_test, y_test)) Epoch 1/100: - 81s 400ms/step - loss: 1.8888 - accuracy: 0.5282 - val_loss: 0.7782 - val_accuracy: 0.7025 Epoch 2/100: - 52s 470ms/step - loss: 0.7912 - accuracy: 0.7522 - val_loss: 0.7076 - val_accuracy: 0.7553 Epoch 3/100: - 50s 440ms/step - loss: 0.8575 - accuracy: 0.7525 - val_loss: 1.1476 - val_accuracy: 0.6238 Epoch 4/100: - 47s 420ms/step - loss: 0.5946 - accuracy: 0.7947 - val_loss: 0.8129 - val_accuracy: 0.6988 Epoch 5/100: - 45s 442ms/step - loss: 0.5923 - accuracy: 0.7999 - val_loss: 0.6912 - val_accuracy: 0.7708 Epoch 6/100: - 52s 470ms/step - loss: 0.5948 - accuracy: 0.7923 - val_loss: 0.7817 - val_accuracy: 0.7848 Epoch 7/100: - 46s 412ms/step - loss: 0.4935 - accuracy: 0.8149 - val_loss: 0.6025 - val_accuracy: 0.7882 Epoch 8/100: - 45s 408ms/step - loss: 0.4934 - accuracy: 0.8161 - val_loss: 0.5888 - val_accuracy: 0.8215 Epoch 9/100: - 45s 405ms/step - loss: 0.4939 - accuracy: 0.8225 - val_loss: 0.6408 - val_accuracy: 0.7557 Epoch 10/100: - 45s 405ms/step - loss: 0.4938 - accuracy: 0.8428 - val_loss: 0.7512 - val_accuracy: 0.7537 </pre>