## Project Development Phase Model Performance Test

Date	19 November2022
Team ID	PNT2022TMID46941
Project Name	Natural Disaster Intensity Analysis And Classification using Artificial Intelligence
Maximum Marks	10Marks

## **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	Model: "sequential"		
		Trainable	Layer (type)	Output Shape	Param #
			conv2d (Conv2D)	(None, 62, 62, 32)	896
		params:813,604	max_pooling2d (MaxPooling	g2D) (None, 31, 31, 32)	0
		Non-trainableparams:0	conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
			max_pooling2d_1 (MaxPool	ing2 (None, 14, 14, 32)	θ
			flatten (Flatten)	(None, 6272)	θ
			dense (Dense)	(None, 128)	802944
			dense_1 (Dense)	(None, 4)	516
2.	Accuracy	Training Accuracy - 94.3%Validation  Accuracy- 83.33%	Prince of the Control of the Contr	Second   S	

## **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 (MaxPooling2	(None, 14, 14, 32)	0
flatten (Flatten)	(None, 6272)	9
dense (Dense)	(None, 128)	802944
dense_1 (Dense)	(None, 4)	516 

## **Accuracy:**

```
Please use Model.fit, which supports generators.
Epoch 1/20
Epoch 2/20
149/149 [===
      Epoch 3/20
Epoch 4/20
Epoch 5/20
Epoch 6/20
149/149 [===============] - 26s 175ms/step - loss: 0.5214 - accuracy: 0.8032 - val loss: 0.5987 - val accuracy: 0.8081
Epoch 7/20
149/149 [===============] - 21s 140ms/step - loss: 0.4618 - accuracy: 0.8235 - val_loss: 0.9052 - val_accuracy: 0.7323
    149/149 [===
Epoch 10/20
149/149 [===
     Epoch 11/20
Epoch 19/20
Epoch 20/20
149/149 [===
      :========] - 21s 142ms/step - loss: 0.1734 - accuracy: 0.9434 - val_loss: 0.8815 - val_accuracy: 0.7980
```