## Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID28596	
Project Name	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	Model: "sequential"	
	,	Trainable params: 813,604	Layer (type) Output Shape Param #	
		· · · · · · · · · · · · · · · · · · ·	conv2d (Conv2D) (None, 62, 62, 32) 896	
		Non-trainable params: 0	max_pooling2d (MaxPooling2D) (None, 31, 31, 32) θ	
			conv2d_1 (Conv2D) (None, 29, 29, 32) 9248	
			max_pooling2d_1 (MaxPooling2 (None, 14, 14, 32) 0	
			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%	For on the Mark 10, 40th regions person.  John Son Son Son Son Son Son Son Son Son So	
		Validation Accuracy 65.55%	The control of the	
			1906 1879	

## **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)	0
dense (Dense)	(None, 128)	802944
dense_1 (Dense)	(None, 4)	516 

## **Accuracy:**

```
Please use Model.fit, which supports generators.
Epoch 1/20
149/149 [===========] - 23s 153ms/step - loss: 1.1720 - accuracy: 0.4933 - val loss: 0.8377 - val accuracy: 0.6667
Epoch 2/20
149/149 [========] - 21s 139ms/step - loss: 0.8336 - accuracy: 0.6550 - val_loss: 1.1909 - val_accuracy: 0.4697
Epoch 4/20
     149/149 [===
Epoch 6/20
Epoch 7/20
Epoch 9/20
149/149 [============ 0.871 - 21s 139ms/step - loss: 0.3561 - accuracy: 0.8679 - val_loss: 0.8216 - val_accuracy: 0.7727
Epoch 11/20
Epoch 19/20
    149/149 [===
Epoch 20/20
```