ProjectDevelopmentPhase ModelPerformanceTest

Date	19 November2022	
Team ID	PNT2022TMID54341	
ProjectName	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence	
MaximumMarks	10Marks	

ModelPerformanceTesting:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot	
1.	ModelSummary	Totalparams:813,604	Model: "sequential"	
	,	•	Layer (type) Output Shape Param #	
		Trainableparams:813,604	conv2d (Conv2D) (None, 62, 62, 32) 896	
		Non-trainableparams:0	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) θ	
			dense (Dense) (None, 128) 802944	
			dense_1 (Dense) (None, 4) 516	
2.	Accuracy	Training Accuracy –	Territory and West And Continues (1997) 1 1	
		94.3%ValidationAccuracy-	The color	
		83.33%	The following control of the control	

ModelSummary:

Model: "sequential"		
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 62, 62, 32)	896
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	9
conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
max_pooling2d_1 (MaxPooling2	(None, 14, 14, 32)	9
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
    149/149 [===
149/149 [===
      Epoch 3/20
149/149 [===
       :=========] - 21s 143ms/step - loss: 0.7105 - accuracy: 0.7399 - val_loss: 0.8390 - val_accuracy: 0.6717
Epoch 4/20
       :========] - 21s 141ms/step - loss: 0.5757 - accuracy: 0.7736 - val_loss: 0.9805 - val_accuracy: 0.6263
149/149 [=====
Epoch 5/20
149/149 [======
      Epoch 7/20
149/149 [=====
      Epoch 8/20
      149/149 [===
Epoch 9/20
    149/149 [===
Epoch 10/20
Epoch 11/20
149/149 [=======] - 21s 142ms/step - loss: 0.4345 - accuracy: 0.8410 - val loss: 0.6938 - val accuracy: 0.7879
Epoch 19/20
149/149 [===
```