Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID48363	
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"		
	,		Layer (type)	Output Shape	Param #
		Trainable params: 813,604	conv2d (Conv2D)	(None, 62, 62, 32)	896
		Non-trainable params: 0	max_pooling2d (MaxPooling2D) (None, 31, 31, 32)	0
			conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
			max_pooling2d_1 (MaxPooling	2 (None, 14, 14, 32)	θ
			flatten (Flatten)	(None, 6272)	9
			dense (Dense)	(None, 128)	802944
			dense_1 (Dense)	(None, 4)	516
2.	Accuracy	Training Accuracy – 94.3% Validation Accuracy -83.33%	Total of which of the latest present	New York 1970 -	100 107 104 107 104 107

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:

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Please use Model.fit, which supports generators.
Epoch 1/20
Epoch 3/20
     149/149 [====
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
Epoch 7/20
149/149 [======
    Epoch 8/20
    149/149 [===
Epoch 9/20
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 [===
```