Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35901
Project Name	Project - Natural Disasters 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	-	Model: "sequential"			
			Layer (type)	Output Shape	Param #	
			conv2d (Conv2D)	(None, 297, 297, 32)	896	
			max_pooling2d (MaxPooling2D)	(None, 148, 148, 32)	0	
			conv2d_1 (Conv2D)	(None, 146, 146, 64)	18496	
			max_pooling2d_1 (MaxPooling 2D)	(None, 73, 73, 64)	0	
			dropout (Dropout)	(None, 73, 73, 64)	0	
			conv2d_2 (Conv2D)	(None, 71, 71, 32)	18464	
			max_pooling2d_2 (MaxPooling 2D)	(None, 35, 35, 32)	0	
			dropout_1 (Dropout)	(None, 35, 35, 32)	0	
			flatten (Flatten)	(None, 39200)	0	
			dense (Dense)	(None, 256)	10035456	
			dropout_2 (Dropout)	(None, 256)	0	
			dense_1 (Dense)	(None, 4)	1028	
			Total params: 10,074,340 Trainable params: 10,074,340 Non-trainable params: 0			
2.	Accuracy	Training Accuracy - 88.841%	310/310 [] - 5835 25/5t	tep - loss: 0.1968 - accuracy: 0.9374 - val_l	oss: 0.3743 - val_accuracy:	
		Validation Accuracy - 88.01%				

3.	Confidence Score	Class Detected - 0-Cyclone,	CNN Disaster	Classificat precision		Accuracy on f1-score	test set: support	0.8881
		,		0.96	0.90	0.93	94	
		1-		0.86	0.92	0.89	136	
		_ Earthquake		0.87 0.90			108	
		Lartinquake	1	0.90	0.88	0.89	109	
		2-Flood	accuracy	,		0.89	447	
			macro av				447	
		3-Wildfire	weighted av	0.89	0.89	0.89	447	
		Confidence						
		Score –						
		Class 1-						
		0.93						
		Class 2-						
		0.89						
		Class 3-						
		0.85						
		Class 4-						
		0.89						