

Project Development Phase

Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID40422
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	-	<pre>In [1]: classifier.summary()#summary of our model</pre> <table><thead><tr><th>Layer (type)</th><th>Output Shape</th><th>Param #</th></tr></thead><tbody><tr><td>conv2d (Conv2D)</td><td>(None, 62, 62, 32)</td><td>880</td></tr><tr><td>max_pooling2d (MaxPooling2D)</td><td>(None, 31, 31, 32)</td><td>0</td></tr><tr><td>conv2d_1 (Conv2D)</td><td>(None, 29, 29, 32)</td><td>5216</td></tr><tr><td>conv2d_2 (Conv2D)</td><td>(None, 27, 27, 64)</td><td>8544</td></tr><tr><td>max_pooling2d_1 (MaxPooling2D)</td><td>(None, 13, 13, 64)</td><td>0</td></tr><tr><td>conv2d_3 (Conv2D)</td><td>(None, 11, 11, 128)</td><td>8544</td></tr><tr><td>flatten (Flatten)</td><td>(None, 1600)</td><td>0</td></tr><tr><td>Dense (Dense)</td><td>(None, 320)</td><td>480320</td></tr><tr><td>dense_1 (Dense)</td><td>(None, 1)</td><td>320</td></tr></tbody></table> <p>Total params: 538,100 Trainable params: 538,000 Non-trainable params: 0</p> <p>Compiling the Model</p>	Layer (type)	Output Shape	Param #	conv2d (Conv2D)	(None, 62, 62, 32)	880	max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0	conv2d_1 (Conv2D)	(None, 29, 29, 32)	5216	conv2d_2 (Conv2D)	(None, 27, 27, 64)	8544	max_pooling2d_1 (MaxPooling2D)	(None, 13, 13, 64)	0	conv2d_3 (Conv2D)	(None, 11, 11, 128)	8544	flatten (Flatten)	(None, 1600)	0	Dense (Dense)	(None, 320)	480320	dense_1 (Dense)	(None, 1)	320
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2.	Accuracy	Training Accuracy – 99.33 Validation Accuracy - 68.18	<pre>Epoch 149/149: loss: 0.8427 - accuracy: 0.9932 - val_loss: 1.8291 - val_accuracy: 0.6818</pre> <p>Saving the Model</p>																														

