



Model Development Phase Template

Date	15 March 2024	
Team ID	team-739852	
Project Title	Natural Disasters Intensity Analysis And Classification Using AI	
Maximum Marks	10 Marks	

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

Initial Model Training Code (5 marks):

Paste the screenshot of the model training code

Model Validation and Evaluation Report (5 marks):

Model	Summary classifier * Sequential()	Training and Validation Performance Metrics		
	classifier.add(Conv2D(32, (3, 3), input_shape=(64, 64, 3), activation='relu'))	Layer (type)	Output Shape	Param #
Convoluti	tion classifier.add(MayPooling2N(pool.size(x, 2))) classifier.add(MayPooling2N(pool.size(x, 2))) classifier.add(MayPooling2N(pool.size(x, 2))) classifier.add(MayPooling2N(pool.size(x, 2)))	conv2d (Conv2D)	(None, 62, 62, 32)	896
		max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0
onal	<pre>classifier.add(Flatten())</pre>	conv2d_1 (Conv2D)	(None, 29, 29, 32)	9,248
Veural	<pre>classifier.add(Dense(units=128, activation='relu')) classifier.add(Dense(units=4, activation='softmax'))</pre>	max_pooling2d_1 (MaxPooling2D)	(None, 14, 14, 32)	0
Neurai		flatten (Flatten)	(None, 6272)	0
Network	classifier.summary()	dense (Dense)	(None, 128)	802,944
(CNN)	Compile the model	dense_1 (Dense)	(None, 4)	516
(CIVIV)	25]: model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])	Total params: 813,604 (3.10 MB)		
	261: model.summary()	Trainable params: 813,604 (3.10 MB) Non-trainable params: 0 (0.00 B)		