



Model Development Phase Template

Date	15 April 2024
Team ID	738181
Project Title	CRIME VISION: ADVANCED CRIME CLASSIFICATION WITH DEEP LEARNING.
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			Training and Validation Performance Metrics
	Model: "sequential_3"			
	Layer (type)	Output Shape	Param #	
	densenet121 (Functional)	(None, 2, 2, 1024)	7037504	
	<pre>global_average_pooling2d_3 (GlobalAveragePooling2D)</pre>	(None, 1024)	0	1 model.fit(x *train_gen ,validation_data * val_gen, epochs * 5)
	dense_12 (Dense)	(None, 256)	262400	spoth 1/5 7915/7915 [
DenseNet121	dropout_6 (Dropout)	(None, 256)	0	Epoch 2/5 7915/7915 [
	dense_13 (Dense)	(None, 512)	131584	Cpoch 3/5 /#15/##15 [
	dropout_7 (Dropout)	(None, 512)	ø	Epoth 4/5 7915/7915 [
	dense_14 (Dense)	(None, 1024)	525312	porn N/5 7915/7915 [
	dense_15 (Dense)	(None, 14)	14350	
	Total params: 7971150 (30.41 Trainable params: 933646 (3. Non-trainable params: 703750	MB) 56 MB)		





Xception	13 model = crasse_mental() model = cra	[i4] history = model.fit(x = train_gen_validation_data-val_gen_epochs = EPOOS) [pach 1/9 [791/7915 [
VGG16	State Stat	<pre>1 model.fit(x = train_set,validation_data=val_set,epocha=i,callbacks=[early_stooping]) 5004/5006 [</pre>
ResNet50		modell.fit(x = train_generator,validation_data=test_generator,epochs=5,callbacks = [early_stopping]) Epoch 1/5 118/315 [=========>] - ETA: 3:38:37 - loss: 4.0115 - accuracy: 0.3672