## Project Development Phase Model Performance Test

Date	23 November 2022	
Team ID	PNT2022TMID05420	
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.	
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:14,789,955 Trainable params: 75,267 Non-trainable params: 14,714,688	Corest   C
2.	Accuracy	Training Accuracy – 98.66	
		Validation Accuracy – 73.53	## Code = Field   Connect =      **Orde = Field   Code = Field   Connect =     **Orde = Field   Code = Field

## **Model Summary**

0	model=Model(inputs=vgg.input,outputs=prediction)
	model.summarv()

Model: "model\_1"

Layer (type)	Output Shape	Param #
input_2 (InputLayer)	[(None, 244, 244, 3)]	0
block1_conv1 (Conv2D)	(None, 244, 244, 64)	1792
block1_conv2 (Conv2D)	(None, 244, 244, 64)	36928
block1_pool (MaxPooling2D)	(None, 122, 122, 64)	0
block2_conv1 (Conv2D)	(None, 122, 122, 128)	73856
block2_conv2 (Conv2D)	(None, 122, 122, 128)	147584
block2_pool (MaxPooling2D)	(None, 61, 61, 128)	0
block3_conv1 (Conv2D)	(None, 61, 61, 256)	295168
block3_conv2 (Conv2D)	(None, 61, 61, 256)	590080
block3 conv3 (Conv2D)	(None. 61. 61. 256)	590080

9	DIOCK3 DOOT (WAXLOOTIUGSD)	(None, 30, 30, 256)	9
	block4_conv1 (Conv2D)	(None, 30, 30, 512)	1180160
9	block4_conv2 (Conv2D)	(None, 30, 30, 512)	2359808
	block4_conv3 (Conv2D)	(None, 30, 30, 512)	2359808
	block4_pool (MaxPooling2D)	(None, 15, 15, 512)	0
	block5_conv1 (Conv2D)	(None, 15, 15, 512)	2359808
	block5_conv2 (Conv2D)	(None, 15, 15, 512)	2359808
	block5_conv3 (Conv2D)	(None, 15, 15, 512)	2359808
	block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0
	flatten_1 (Flatten)	(None, 25088)	0
	dense_1 (Dense)	(None, 3)	75267

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Total params: 14,789,955 Trainable params: 75,267 Non-trainable params: 14,714,688

## **Accuracy**

```
r = model.fit_generator(
      training_set,
      validation_data = test_set,
      epochs = 25,
      steps_per_epoch=979//10,
      validation_steps = 171//10
🙆 /tmp/wsuser/ipykernel_164/289406290.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version. Please use `Model.fit`, which
   Epoch 1/25
   97/97 [===
Epoch 2/25
                     =======] - 339s 3s/step - loss: 1.1511 - acc: 0.5459 - val_loss: 0.9324 - val_acc: 0.6294
   97/97 [====
                       Epoch 3/25
   97/97 [===
                              ===] - 331s 3s/step - loss: 0.4937 - acc: 0.8070 - val_loss: 1.1732 - val_acc: 0.6176
   Epoch 4/25
                               ==] - 326s 3s/step - loss: 0.4349 - acc: 0.8411 - val_loss: 0.9766 - val_acc: 0.6824
   Epoch 5/25
                               ==] - 326s 3s/step - loss: 0.3661 - acc: 0.8617 - val_loss: 1.1987 - val_acc: 0.6529
   Fnoch 6/25
   97/97 [====
Epoch 7/25
                               ==] - 325s 3s/step - loss: 0.2681 - acc: 0.8875 - val_loss: 0.9087 - val_acc: 0.6941
                      ========] - 325s 3s/step - loss: 0.2292 - acc: 0.9195 - val_loss: 1.0251 - val_acc: 0.6647
   Epoch 8/25
97/97 [====
                     97/97 [=====
               0
   Epoch 13/25
   97/97 [=====
                 ============= ] - 325s 3s/step - loss: 0.0746 - acc: 0.9763 - val_loss: 1.1819 - val_acc: 0.6647
   Epoch 14/25
   97/97 [=====
                        =======] - 325s 3s/step - loss: 0.1078 - acc: 0.9711 - val_loss: 1.0919 - val_acc: 0.7176
   Epoch 15/25
   97/97 [====
                       ========] - 327s 3s/step - loss: 0.0659 - acc: 0.9866 - val_loss: 1.0925 - val_acc: 0.6824
   Epoch 16/25
                    ==========] - 326s 3s/step - loss: 0.0996 - acc: 0.9721 - val_loss: 1.2487 - val_acc: 0.6706
   97/97 [=====
   Epoch 17/25
   97/97 [=====
                     =========] - 327s 3s/step - loss: 0.0683 - acc: 0.9845 - val_loss: 1.1608 - val_acc: 0.6824
   Epoch 18/25
   97/97 [====
                      =======] - 328s 3s/step - loss: 0.0477 - acc: 0.9856 - val_loss: 1.5155 - val_acc: 0.6706
   Epoch 19/25
   97/97 [=====
                        Epoch 20/25
   97/97 [=====
                      ========] - 324s 3s/step - loss: 0.0498 - acc: 0.9866 - val_loss: 1.2369 - val_acc: 0.6706
   Fnoch 21/25
   97/97 [=====
                     ========] - 323s 3s/step - loss: 0.0736 - acc: 0.9876 - val_loss: 1.1987 - val_acc: 0.6706
   Epoch 22/25
   97/97 [====
                      Epoch 23/25
   97/97 [=====
                     =======] - 325s 3s/step - loss: 0.1011 - acc: 0.9711 - val_loss: 1.2466 - val_acc: 0.6882
   Epoch 24/25
   97/97 [=====
                       ========] - 3275 3s/step - loss: 0.0756 - acc: 0.9814 - val_loss: 1.5177 - val_acc: 0.6588
   Epoch 25/25
                      :========] - 327s 3s/step - loss: 0.0480 - acc: 0.9866 - val_loss: 1.3861 - val_acc: 0.7353
   97/97 [======
```