

Project Development Phase  
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35935
Project Name	Project - Intelligent Vehicle Damage Assessment and 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. N o.	Para meter	Values	Screenshot
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# Model Summary

Model: "sequential_1"		
Layer (type)	Output Shape	Param #
conv2d_13 (Conv2D)	(None, 224, 224, 64)	1792
conv2d_14 (Conv2D)	(None, 224, 224, 64)	36928
max_pooling2d_5 (MaxPooling 2D)	(None, 112, 112, 64)	0
conv2d_15 (Conv2D)	(None, 112, 112, 128)	73856
conv2d_16 (Conv2D)	(None, 112, 112, 128)	147584
max_pooling2d_6 (MaxPooling 2D)	(None, 56, 56, 128)	0
conv2d_17 (Conv2D)	(None, 56, 56, 256)	295168
conv2d_18 (Conv2D)	(None, 56, 56, 256)	590080
conv2d_19 (Conv2D)	(None, 56, 56, 256)	590080
max_pooling2d_7 (MaxPooling 2D)	(None, 28, 28, 256)	0
conv2d_20 (Conv2D)	(None, 28, 28, 512)	1180160
conv2d_21 (Conv2D)	(None, 28, 28, 512)	2359808
conv2d_22 (Conv2D)	(None, 28, 28, 512)	2359808
max_pooling2d_8 (MaxPooling 2D)	(None, 14, 14, 512)	0
conv2d_23 (Conv2D)	(None, 14, 14, 512)	2359808
conv2d_24 (Conv2D)	(None, 14, 14, 512)	2359808
conv2d_25 (Conv2D)	(None, 14, 14, 512)	2359808
max_pooling2d_9 (MaxPooling 2D)	(None, 7, 7, 512)	0
flatten_1 (Flatten)	(None, 25088)	0
dense_3 (Dense)	(None, 4096)	102764544
dense_4 (Dense)	(None, 4096)	16781312
dense_5 (Dense)	(None, 3)	12291
Total params: 134,272,835		
Trainable params: 134,272,835		
Non-trainable params: 0		

2	Accuracy	<p>Training Accuracy - 98.66%</p> <p>Validation Accuracy - 73.53%</p>	<pre> 1  r = model.fit_generator( 2      training_set, 3      validation_data = test_set, 4      epochs = 25, 5      steps_per_epoch=979//10, 6      validation_steps = 171//10 7  ) </pre> <p>[33]</p> <pre> ... /tmp/wsuser/ipykernel_164/289406290.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future     r = model.fit_generator( </pre> <p>Output exceeds the <a href="#">size limit</a>. Open the full output data <a href="#">in a text editor</a></p> <p>Epoch 1/25</p> <pre>97/97 [=====] - 339s 3s/step - loss: 1.1511 - acc: 0.5459 - val_loss: 0.9324 - val_acc: 0.6294</pre> <p>Epoch 2/25</p> <pre>97/97 [=====] - 328s 3s/step - loss: 0.6237 - acc: 0.7534 - val_loss: 0.7954 - val_acc: 0.6941</pre> <p>Epoch 3/25</p> <pre>97/97 [=====] - 331s 3s/step - loss: 0.4937 - acc: 0.8070 - val_loss: 1.1732 - val_acc: 0.6176</pre> <p>Epoch 4/25</p> <pre>97/97 [=====] - 326s 3s/step - loss: 0.4349 - acc: 0.8411 - val_loss: 0.9766 - val_acc: 0.6824</pre> <p>Epoch 5/25</p> <pre>97/97 [=====] - 326s 3s/step - loss: 0.3661 - acc: 0.8617 - val_loss: 1.1987 - val_acc: 0.6529</pre> <p>Epoch 6/25</p> <pre>97/97 [=====] - 325s 3s/step - loss: 0.2681 - acc: 0.8875 - val_loss: 0.9087 - val_acc: 0.6941</pre> <p>Epoch 7/25</p> <pre>97/97 [=====] - 325s 3s/step - loss: 0.2292 - acc: 0.9195 - val_loss: 1.0251 - val_acc: 0.6647</pre> <p>Epoch 8/25</p> <pre>97/97 [=====] - 326s 3s/step - loss: 0.1248 - acc: 0.9659 - val_loss: 1.0597 - val_acc: 0.6706</pre> <p>Epoch 9/25</p> <pre>97/97 [=====] - 323s 3s/step - loss: 0.1315 - acc: 0.9639 - val_loss: 1.0529 - val_acc: 0.6647</pre> <p>Epoch 10/25</p> <pre>97/97 [=====] - 322s 3s/step - loss: 0.0922 - acc: 0.9752 - val_loss: 0.9898 - val_acc: 0.6588</pre> <p>Epoch 11/25</p> <pre>97/97 [=====] - 323s 3s/step - loss: 0.0913 - acc: 0.9825 - val_loss: 1.5796 - val_acc: 0.6529</pre> <p>Epoch 12/25</p> <pre>97/97 [=====] - 322s 3s/step - loss: 0.1447 - acc: 0.9536 - val_loss: 1.1999 - val_acc: 0.6706</pre> <p>Epoch 13/25</p> <pre>...</pre> <p>Epoch 24/25</p> <pre>97/97 [=====] - 327s 3s/step - loss: 0.0756 - acc: 0.9814 - val_loss: 1.5177 - val_acc: 0.6588</pre> <p>Epoch 25/25</p> <pre>97/97 [=====] - 327s 3s/step - loss: 0.0480 - acc: 0.9866 - val_loss: 1.3861 - val_acc: 0.7353</pre>
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