

Project Development Phase

Model Performance Test

Date	03 November 2022
Team ID	PNT2022TMID14840
Project Name	INTELLIGENT VEHICLE DAMAGE ASSESSMENT AND COST ESTIMATOR FOR INSURANCE COMPANIES
Maximum Marks	4 Marks

Model Performance Testing

Project team shall fill the following information in the model performance testing template.

S.NO	PARAMETER	VALUES	SCREENSHOT
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1.

Model Summary

+ Code

+ Test

5. Creating A Model Object

```
model = Model(inputs=xgg10.input, outputs=prediction)
```

```
model.summary()
```

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	[(None, 224, 224, 3)]	0
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1792
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36828
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73656
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295328
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590880
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590880
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1180160
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2359808
block4_conv3 (Conv2D)	(None, 28, 28, 512)	2359808
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	0
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv2 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv3 (Conv2D)	(None, 14, 14, 512)	2359808
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0
flatten (Flatten)	(None, 25088)	0
dense (Dense)	(None, 3)	75267

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 Total params: 14,789,955
 Trainable params: 78,287

2.	Accuracy	<p>Training Accuracy</p> <p>- 97.51%</p> <p>Validation Accuracy</p> <p>- 70.42%</p>	<pre> training_set, validation_data=test_set, epochs=25, steps_per_epoch=len(training_set), validation_steps=len(test_set)) /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:6: UserWarning: 'Model.'</pre> <p>Epoch 1/25</p> <p>98/98 [#####] - 508s 6s/step - loss: 1.2275 - accuracy: 0.5</p> <p>Epoch 2/25</p> <p>98/98 [#####] - 584s 6s/step - loss: 0.7810 - accuracy: 0.7</p> <p>Epoch 3/25</p> <p>98/98 [#####] - 538s 5s/step - loss: 0.4842 - accuracy: 0.8</p> <p>Epoch 4/25</p> <p>98/98 [#####] - 537s 5s/step - loss: 0.3813 - accuracy: 0.8</p> <p>Epoch 5/25</p> <p>98/98 [#####] - 537s 5s/step - loss: 0.2795 - accuracy: 0.8</p> <p>Epoch 6/25</p> <p>98/98 [#####] - 538s 5s/step - loss: 0.2211 - accuracy: 0.9</p> <p>Epoch 7/25</p> <p>98/98 [#####] - 535s 5s/step - loss: 0.2063 - accuracy: 0.9</p> <p>Epoch 8/25</p> <p>98/98 [#####] - 538s 6s/step - loss: 0.1728 - accuracy: 0.9</p> <p>Epoch 9/25</p> <p>98/98 [#####] - 540s 6s/step - loss: 0.1423 - accuracy: 0.9</p> <p>Epoch 10/25</p> <p>98/98 [#####] - 539s 6s/step - loss: 0.1118 - accuracy: 0.9</p> <p>Epoch 11/25</p> <p>98/98 [#####] - 538s 5s/step - loss: 0.0888 - accuracy: 0.9</p> <p>Epoch 12/25</p> <p>98/98 [#####] - 540s 6s/step - loss: 0.0751 - accuracy: 0.9</p> <p>Epoch 13/25</p> <p>98/98 [#####] - 555s 6s/step - loss: 0.0790 - accuracy: 0.9</p> <p>Epoch 14/25</p> <p>98/98 [#####] - 535s 5s/step - loss: 0.1074 - accuracy: 0.9</p> <p>Epoch 15/25</p> <p>98/98 [#####] - 539s 6s/step - loss: 0.0598 - accuracy: 0.9</p> <p>Epoch 16/25</p> <p>98/98 [#####] - 543s 6s/step - loss: 0.0810 - accuracy: 0.9</p> <p>Epoch 17/25</p> <p>98/98 [#####] - 541s 6s/step - loss: 0.1196 - accuracy: 0.9</p> <p>Epoch 18/25</p> <p>98/98 [#####] - 543s 6s/step - loss: 0.0915 - accuracy: 0.9</p> <p>Epoch 19/25</p> <p>98/98 [#####] - 544s 6s/step - loss: 0.0687 - accuracy: 0.9</p> <p>Epoch 20/25</p> <p>98/98 [#####] - 546s 6s/step - loss: 0.0492 - accuracy: 0.9</p> <p>Epoch 21/25</p> <p>98/98 [#####] - 543s 6s/step - loss: 0.0674 - accuracy: 0.9</p> <p>Epoch 22/25</p> <p>98/98 [#####] - 537s 5s/step - loss: 0.0740 - accuracy: 0.9</p> <p>Epoch 23/25</p> <p>98/98 [#####] - 538s 6s/step - loss: 0.0822 - accuracy: 0.9</p> <p>Epoch 24/25</p> <p>98/98 [#####] - 541s 6s/step - loss: 0.1048 - accuracy: 0.9</p> <p>Epoch 25/25</p> <p>98/98 [#####] - 544s 6s/step - loss: 0.1373 - accuracy: 0.9</p>
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