

Project Development Phase Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID33187
Project Name	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.No.	Parameter	Values	Screenshot
1.	Model Summary	-	Submitted below
2.	Accuracy	Training Accuracy - Validation Accuracy -	Submitted below
3.	Confidence Score (Only Yolo Projects)	Class Detected - Confidence Score -	-

1. 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)	36928
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1180160
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2350808

Model_building(body).ipynb

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Model: "model"

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)	36928
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block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
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block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
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

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2.Accuracy:

Model_building(level).ipynb

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```
steps_per_epoch=len(training_set),
validation_steps=len(test_set)
)
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:6: UserWarning: 'Model.fit_generator' is deprecated and will be removed in a future version. Please use 'Model.fit', which

```
Epoch 1/12
98/98 [=====] - 622s 6s/step - loss: 1.3278 - accuracy: 0.5373 - val_loss: 2.4295 - val_accuracy: 0.5088
Epoch 2/12
98/98 [=====] - 614s 6s/step - loss: 0.8704 - accuracy: 0.6874 - val_loss: 1.2395 - val_accuracy: 0.6199
Epoch 3/12
98/98 [=====] - 611s 6s/step - loss: 0.5879 - accuracy: 0.7855 - val_loss: 1.3300 - val_accuracy: 0.5556
Epoch 4/12
98/98 [=====] - 607s 6s/step - loss: 0.3870 - accuracy: 0.8693 - val_loss: 1.1693 - val_accuracy: 0.5614
Epoch 5/12
98/98 [=====] - 599s 6s/step - loss: 0.2802 - accuracy: 0.8927 - val_loss: 1.0446 - val_accuracy: 0.6082
Epoch 6/12
98/98 [=====] - 607s 6s/step - loss: 0.3256 - accuracy: 0.8856 - val_loss: 1.4662 - val_accuracy: 0.5965
Epoch 7/12
98/98 [=====] - 608s 6s/step - loss: 0.2428 - accuracy: 0.8999 - val_loss: 1.2386 - val_accuracy: 0.6199
Epoch 8/12
98/98 [=====] - 606s 6s/step - loss: 0.1834 - accuracy: 0.9295 - val_loss: 1.1743 - val_accuracy: 0.6374
Epoch 9/12
98/98 [=====] - 602s 6s/step - loss: 0.1517 - accuracy: 0.9397 - val_loss: 1.1842 - val_accuracy: 0.6433
Epoch 10/12
98/98 [=====] - 606s 6s/step - loss: 0.1075 - accuracy: 0.9694 - val_loss: 1.1561 - val_accuracy: 0.6374
Epoch 11/12
98/98 [=====] - 603s 6s/step - loss: 0.0805 - accuracy: 0.9775 - val_loss: 1.1703 - val_accuracy: 0.6433
Epoch 12/12
98/98 [=====] - 607s 6s/step - loss: 0.0632 - accuracy: 0.9826 - val_loss: 1.1278 - val_accuracy: 0.6433
```

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IBM

Performance Testing - Google

Performance Testing - Arif

IBM-Project-16637-16596

google colab notebook

Model_building(body).ipynb

colab.research.google.com/drive/1dM-yWVFJq9gnY1yvC1jivR0HdZuegy0#scrollTo=LzFvYloeWjyo

Model_building(body).ipynb

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Files

gdrive
sample_data

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98/98 [=====] - 645s 7s/step - loss: 1.2343 - accuracy: 0.5128 - val_loss: 0.8886 - val_accuracy: 0.6491
Epoch 2/25
98/98 [=====] - 633s 6s/step - loss: 0.6810 - accuracy: 0.7487 - val_loss: 0.8953 - val_accuracy: 0.6667
Epoch 3/25
98/98 [=====] - 636s 6s/step - loss: 0.5376 - accuracy: 0.7967 - val_loss: 0.9190 - val_accuracy: 0.6374
Epoch 4/25
98/98 [=====] - 635s 6s/step - loss: 0.4057 - accuracy: 0.8458 - val_loss: 1.2112 - val_accuracy: 0.6199
Epoch 5/25
98/98 [=====] - 639s 7s/step - loss: 0.3807 - accuracy: 0.8570 - val_loss: 1.4361 - val_accuracy: 0.6608
Epoch 6/25
98/98 [=====] - 635s 6s/step - loss: 0.2567 - accuracy: 0.9101 - val_loss: 1.0055 - val_accuracy: 0.6550
Epoch 7/25
98/98 [=====] - 637s 6s/step - loss: 0.1830 - accuracy: 0.9367 - val_loss: 1.2190 - val_accuracy: 0.6667
Epoch 8/25
98/98 [=====] - 637s 7s/step - loss: 0.1320 - accuracy: 0.9581 - val_loss: 1.0035 - val_accuracy: 0.6959
Epoch 9/25
98/98 [=====] - 634s 6s/step - loss: 0.1484 - accuracy: 0.9479 - val_loss: 1.0932 - val_accuracy: 0.6608
Epoch 10/25
98/98 [=====] - 635s 6s/step - loss: 0.1204 - accuracy: 0.9642 - val_loss: 1.0959 - val_accuracy: 0.7018
Epoch 11/25
98/98 [=====] - 638s 7s/step - loss: 0.1449 - accuracy: 0.9479 - val_loss: 1.1143 - val_accuracy: 0.7135
Epoch 12/25
98/98 [=====] - 634s 6s/step - loss: 0.1245 - accuracy: 0.9663 - val_loss: 1.3534 - val_accuracy: 0.6725
Epoch 13/25
98/98 [=====] - 630s 6s/step - loss: 0.0775 - accuracy: 0.9826 - val_loss: 1.2147 - val_accuracy: 0.6608
Epoch 14/25
98/98 [=====] - 626s 6s/step - loss: 0.0912 - accuracy: 0.9796 - val_loss: 1.1118 - val_accuracy: 0.7018
Epoch 15/25
98/98 [=====] - 624s 6s/step - loss: 0.0582 - accuracy: 0.9918 - val_loss: 1.1216 - val_accuracy: 0.6901
Epoch 16/25
98/98 [=====] - 624s 6s/step - loss: 0.0690 - accuracy: 0.9816 - val_loss: 1.1281 - val_accuracy: 0.6959
Epoch 17/25
98/98 [=====] - 625s 6s/step - loss: 0.0501 - accuracy: 0.9867 - val_loss: 1.1887 - val_accuracy: 0.6667
Epoch 18/25
98/98 [=====] - 624s 6s/step - loss: 0.0663 - accuracy: 0.9867 - val_loss: 1.1870 - val_accuracy: 0.6842
Epoch 19/25

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Windows Taskbar Icons

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