

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.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuracy Score & Classification Report -	Submitted below
2.	Tune the Model	Hyperparameter Tuning Validation Method -	-

```

98/98 [=====] - 645s 7s/step - loss: 1.2343 - accuracy: 0.5128 - val_loss: 0.8886 - val_accuracy: 0.6491
Epoch 2/25
98/98 [=====] - 635s 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
  
```

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: 0.8784 - 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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