# Model Performance Test

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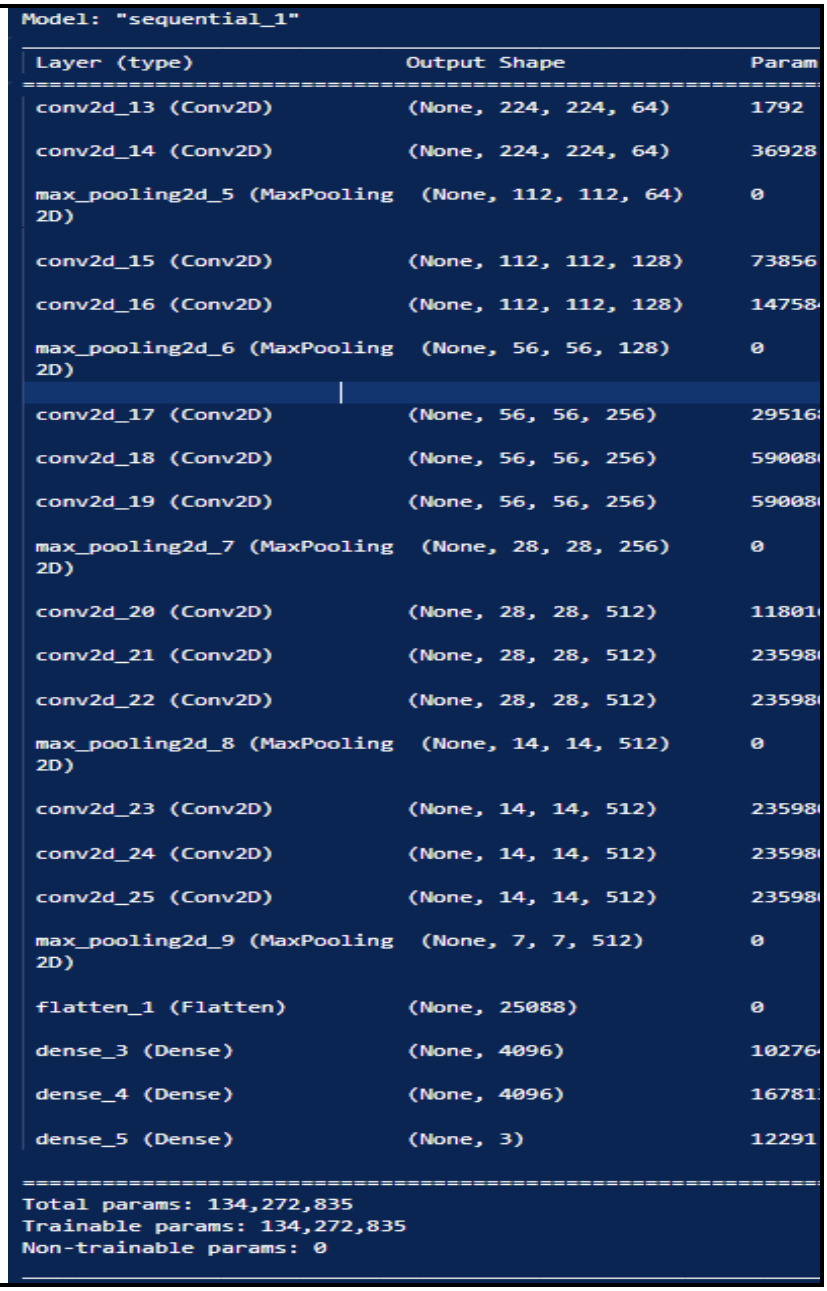
| Date | 25 November 2022 |
| TeamID | PNT2022TMID16533 |
| Project Name | Project - Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies |
| Maximum Marks | 10 Marks |

Model Performance Testing:

| S.No | Parameters | Value | Screenshot |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 1. | Model Summary | |  |

```
Model: "sequential_1"
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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  (None, 112, 112, 64)      0
2D)
conv2d_15 (Conv2D)           (None, 112, 112, 128)     73856
conv2d_16 (Conv2D)           (None, 112, 112, 128)     14758
max_pooling2d_6 (MaxPooling  (None, 56, 56, 128)       0
2D)
conv2d_17 (Conv2D)           (None, 56, 56, 256)       29516
conv2d_18 (Conv2D)           (None, 56, 56, 256)       59008
conv2d_19 (Conv2D)           (None, 56, 56, 256)       59008
max_pooling2d_7 (MaxPooling  (None, 28, 28, 256)       0
2D)
conv2d_20 (Conv2D)           (None, 28, 28, 512)       11801
conv2d_21 (Conv2D)           (None, 28, 28, 512)       23598
conv2d_22 (Conv2D)           (None, 28, 28, 512)       23598
max_pooling2d_8 (MaxPooling  (None, 14, 14, 512)       0
2D)
conv2d_23 (Conv2D)           (None, 14, 14, 512)       23598
conv2d_24 (Conv2D)           (None, 14, 14, 512)       23598
conv2d_25 (Conv2D)           (None, 14, 14, 512)       23598
max_pooling2d_9 (MaxPooling  (None, 7, 7, 512)         0
2D)
flatten_1 (Flatten)          (None, 25088)             0
dense_3 (Dense)              (None, 4096)              10276
dense_4 (Dense)              (None, 4096)              16781
dense_5 (Dense)              (None, 3)                 12291
=================================================================
Total params: 134,272,835
Trainable params: 134,272,835
Non-trainable params: 0
_________________________________________________________________
```

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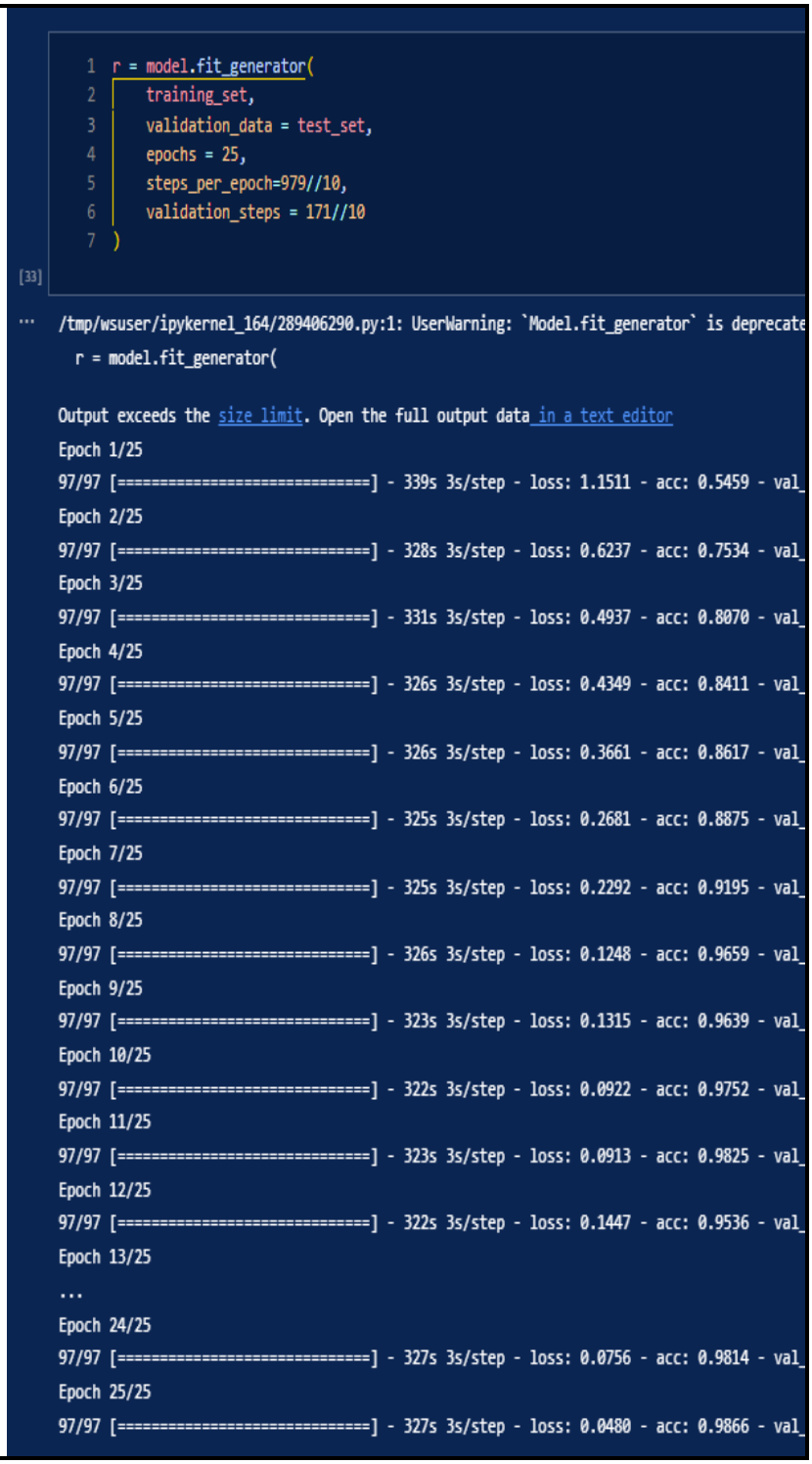
|---|---|---|---|
| 2. | Accuracy | Training Accuracy -98.66%<br><br>Validation Accuracy -73.53% |  |

```
[33] 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 deprecate
  r = model.fit_generator(

Output exceeds the size limit. Open the full output data in a text editor
Epoch 1/25
97/97 [==============================] - 339s 3s/step - loss: 1.1511 - acc: 0.5459 - val_
Epoch 2/25
97/97 [==============================] - 328s 3s/step - loss: 0.6237 - acc: 0.7534 - val_
Epoch 3/25
97/97 [==============================] - 331s 3s/step - loss: 0.4937 - acc: 0.8070 - val_
Epoch 4/25
97/97 [==============================] - 326s 3s/step - loss: 0.4349 - acc: 0.8411 - val_
Epoch 5/25
97/97 [==============================] - 326s 3s/step - loss: 0.3661 - acc: 0.8617 - val_
Epoch 6/25
97/97 [==============================] - 325s 3s/step - loss: 0.2681 - acc: 0.8875 - val_
Epoch 7/25
97/97 [==============================] - 325s 3s/step - loss: 0.2292 - acc: 0.9195 - val_
Epoch 8/25
97/97 [==============================] - 326s 3s/step - loss: 0.1248 - acc: 0.9659 - val_
Epoch 9/25
97/97 [==============================] - 323s 3s/step - loss: 0.1315 - acc: 0.9639 - val_
Epoch 10/25
97/97 [==============================] - 322s 3s/step - loss: 0.0922 - acc: 0.9752 - val_
Epoch 11/25
97/97 [==============================] - 323s 3s/step - loss: 0.0913 - acc: 0.9825 - val_
Epoch 12/25
97/97 [==============================] - 322s 3s/step - loss: 0.1447 - acc: 0.9536 - val_
Epoch 13/25
...
Epoch 24/25
97/97 [==============================] - 327s 3s/step - loss: 0.0756 - acc: 0.9814 - val_
Epoch 25/25
97/97 [==============================] - 327s 3s/step - loss: 0.0480 - acc: 0.9866 - val_
```