


Project Development Phase

Model Performance Test

Date	03 November 2022
Team ID	PNT2022TMID46998
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 model performance testing template.

S.NO.	PARAMETER	VALUES	SCREENSHOT
1.	Model Summary		 <p>The screenshot shows the output of a Keras model summary. At the top, there are buttons for '+ Code' and '+ Text'. Below them is a section titled '5. Creating A Model Object'. The code snippet shows the creation of a model with VGG16 input and a prediction output, followed by a summary call. The summary output is as follows:</p> <pre> 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 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) 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 Total params: 14,789,955 Trainable params: 75,267 </pre>

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)) </pre> <p>/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:6: UserWarning: 'Model.'</p> <p>Epoch 1/25 98/98 [=====] - 560s 6s/step - loss: 1.2275 - accuracy: 0.51 Epoch 2/25 98/98 [=====] - 584s 6s/step - loss: 0.7810 - accuracy: 0.71 Epoch 3/25 98/98 [=====] - 538s 5s/step - loss: 0.4842 - accuracy: 0.81 Epoch 4/25 98/98 [=====] - 537s 5s/step - loss: 0.3813 - accuracy: 0.81 Epoch 5/25 98/98 [=====] - 537s 5s/step - loss: 0.2735 - accuracy: 0.81 Epoch 6/25 98/98 [=====] - 538s 5s/step - loss: 0.2211 - accuracy: 0.91 Epoch 7/25 98/98 [=====] - 536s 5s/step - loss: 0.2163 - accuracy: 0.91 Epoch 8/25 98/98 [=====] - 538s 6s/step - loss: 0.1728 - accuracy: 0.91 Epoch 9/25 98/98 [=====] - 540s 6s/step - loss: 0.1423 - accuracy: 0.91 Epoch 10/25 98/98 [=====] - 539s 6s/step - loss: 0.1118 - accuracy: 0.91 Epoch 11/25 98/98 [=====] - 538s 5s/step - loss: 0.0808 - accuracy: 0.91 Epoch 12/25 98/98 [=====] - 549s 6s/step - loss: 0.0751 - accuracy: 0.91 Epoch 13/25 98/98 [=====] - 555s 6s/step - loss: 0.0730 - accuracy: 0.91 Epoch 14/25 98/98 [=====] - 535s 5s/step - loss: 0.1074 - accuracy: 0.91 Epoch 15/25 98/98 [=====] - 539s 6s/step - loss: 0.0598 - accuracy: 0.91 Epoch 16/25 98/98 [=====] - 543s 6s/step - loss: 0.0810 - accuracy: 0.91 Epoch 17/25 98/98 [=====] - 541s 6s/step - loss: 0.1196 - accuracy: 0.91 Epoch 18/25 98/98 [=====] - 543s 6s/step - loss: 0.0915 - accuracy: 0.91 Epoch 19/25 98/98 [=====] - 544s 6s/step - loss: 0.0687 - accuracy: 0.91 Epoch 20/25 98/98 [=====] - 546s 6s/step - loss: 0.0492 - accuracy: 0.91 Epoch 21/25 98/98 [=====] - 543s 6s/step - loss: 0.0674 - accuracy: 0.91 Epoch 22/25 98/98 [=====] - 537s 5s/step - loss: 0.0740 - accuracy: 0.91 Epoch 23/25 98/98 [=====] - 538s 6s/step - loss: 0.0822 - accuracy: 0.91 Epoch 24/25 98/98 [=====] - 541s 6s/step - loss: 0.1048 - accuracy: 0.91 Epoch 25/25 98/98 [=====] - 544s 6s/step - loss: 0.1373 - accuracy: 0.91</p>
----	----------	---	--