Project Development Phase

Model Performance Test

Date	20 November 2022
Team ID	PNT2022TMID21005
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.

. Model Summary	SCREENSHOT			PARAMETER VALUES SCREENSHOT		
	model = Model(inputs=vgg16.input, model.summary() Model: "model" Layer (type) input_1 (InputLayer) block1_conv1 (Conv2D) block1_pool (MaxPooling2D) block2_conv1 (Conv2D) block2_conv2 (Conv2D) block3_conv1 (Conv2D) block3_conv1 (Conv2D) block3_conv1 (Conv2D) block3_conv1 (Conv2D) block3_conv2 (Conv2D) block3_conv2 (Conv2D) block3_conv2 (Conv2D) block3_conv3 (Conv2D) block4_conv1 (Conv2D) block4_conv1 (Conv2D) block4_conv2 (Conv2D) block4_conv2 (Conv2D) block4_conv3 (Conv2D) block4_conv3 (Conv2D) block5_conv1 (Conv2D) block5_conv1 (Conv2D) block5_conv1 (Conv2D) block5_conv3 (Conv2D) block5_conv3 (Conv2D) block5_pool (MaxPooling2D) flatten (Flatten) dense (Dense)	Output Shape [(None, 224, 224, 3)] (None, 224, 224, 64) (None, 224, 224, 64) (None, 112, 112, 128) (None, 112, 112, 128) (None, 112, 112, 128) (None, 56, 56, 256) (None, 56, 56, 256) (None, 56, 56, 256) (None, 28, 28, 512) (None, 28, 28, 512) (None, 28, 28, 512) (None, 14, 14, 512) (None, 7, 7, 512) (None, 25088) (None, 3)	Param # 1792 36928 0 73856 147584 0 295168 590080 0 1180160 2359808 2359808 2359808 2359808 2359808 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			

2. **Training** Accuracy training_set, Accuracy validation_data=test_set, epochs=25, - 97.51% steps_per_epoch=len(training_set), validation_steps=len(test_set) Validation /usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:6: UserWarning: 'Model.' Accuracy Epoch 1/25 98/98 [==============] - 560s 6s/step - loss: 1.2275 - accuracy: 0.5: - 70.42% Epoch 2/25 98/98 [=============] - 584s 6s/step - loss: 0.7810 - accuracy: 0.78 Epoch 3/25 98/98 [==========================] - 538s 5s/step - loss: 0.4842 - accuracy: 0.8: Epoch 4/25 98/98 [============================] - 537s 5s/step - loss: 0.3813 - accuracy: 0.8! Epoch 5/25 98/98 [======= 0.2735 - accuracy: 0.8! Epoch 6/25 Epoch 7/25 Epoch 8/25 98/98 [=========================] - 538s 6s/step - loss: 0.1728 - accuracy: 0.9: Epoch 9/25 98/98 [==========================] - 540s 6s/step - loss: 0.1423 - accuracy: 0.9! Epoch 18/25 Epoch 11/25 98/98 [------ ---- ---- --- --- -------- - 538s 5s/step - loss: 0.0808 - accuracy: 0.9 Epoch 12/25 98/98 [==========================] - 549s 6s/step - loss: 0.0751 - accuracy: 0.91 Epoch 13/25 98/98 [======= 0.0730 - accuracy: 0.91 Epoch 14/25 98/98 [======= 0.1074 - accuracy: 0.9 Epoch 15/25 98/98 [======== 0.91 - 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: 0.90 Epoch 18/25 Epoch 19/25 98/98 [===============] - 544s 6s/step - loss: 0.0687 - accuracy: 0.91 Epoch 28/25 98/98 [=====================] - 546s 6s/step - loss: 0.0492 - accuracy: 0.9! Epoch 21/25 98/98 [========================] - 543s 6s/step - loss: 0.8674 - accuracy: 0.91 Epoch 22/25 Epoch 24/25 98/98 [===========================] - 541s 6s/step - loss: 0.1048 - accuracy: 0.9k Epoch 25/25 98/98 [=========================] - 544s 6s/step - loss: 0.1373 - accuracy: 0.9!