
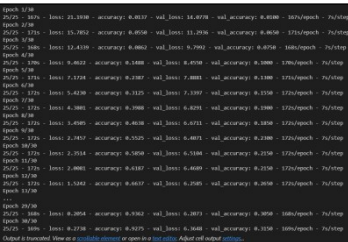



Project Development Phase Model Performance Test

Date	28 October 2023
Team ID	Team - 591740
Project Name	Dog Breed Identification Using Transfer Learning
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	VGG19	 <pre> Model: "model" Layer (type) Output Shape Param # ----- input_1 (InputLayer) [(None, None, None, 3)] 0 block1_conv1 (Conv2D) (None, None, None, 64) 1792 block1_conv2 (Conv2D) (None, None, None, 64) 36928 block1_pool (MaxPooling2D) (None, None, None, 64) 0 block2_conv1 (Conv2D) (None, None, None, 128) 73856 block2_conv2 (Conv2D) (None, None, None, 128) 147584 block2_pool (MaxPooling2D) (None, None, None, 128) 0 block3_conv1 (Conv2D) (None, None, None, 256) 295168 block3_conv2 (Conv2D) (None, None, None, 256) 590880 block3_conv3 (Conv2D) (None, None, None, 256) 590880 block3_conv4 (Conv2D) (None, None, None, 256) 590880 block3_pool (MaxPooling2D) (None, None, None, 256) 0 block4_conv1 (Conv2D) (None, None, None, 512) 1180160 block4_conv2 (Conv2D) (None, None, None, 512) 2359808 block4_conv3 (Conv2D) (None, None, None, 512) 2359808 block4_conv4 (Conv2D) (None, None, None, 512) 2359808 block4_pool (MaxPooling2D) (None, None, None, 512) 0 block5_conv1 (Conv2D) (None, None, None, 512) 2359808 block5_conv2 (Conv2D) (None, None, None, 512) 2359808 block5_conv3 (Conv2D) (None, None, None, 512) 2359808 block5_conv4 (Conv2D) (None, None, None, 512) 2359808 block5_pool (MaxPooling2D) (None, None, None, 512) 0 global_average_pooling2d_6 (GlobalAveragePooling2D) (None, 512) 0 dropout (Dropout) (None, 512) 0 dense (Dense) (None, 120) 61560 Total params: 20,085,944 Trainable params: 61,560 Non-trainable params: 20,024,384 </pre>
2.	Accuracy (for first 1000samples)	Training Accuracy - 0.9362 Validation Accuracy - 0.3150 (30/30 epoches)	 <pre> Epoch 1/30: loss: 21.2000 accuracy: 0.0000 val_loss: 14.4700 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 2/30: loss: 15.7800 accuracy: 0.0000 val_loss: 11.2900 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 3/30: loss: 13.4000 accuracy: 0.0000 val_loss: 8.7900 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 4/30: loss: 9.4000 accuracy: 0.0000 val_loss: 8.4700 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 5/30: loss: 7.1200 accuracy: 0.0000 val_loss: 7.3300 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 6/30: loss: 5.4200 accuracy: 0.0000 val_loss: 7.1300 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 7/30: loss: 4.3800 accuracy: 0.0000 val_loss: 6.8200 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 8/30: loss: 3.4900 accuracy: 0.0000 val_loss: 6.4700 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 9/30: loss: 2.7600 accuracy: 0.0000 val_loss: 6.0800 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 10/30: loss: 2.0800 accuracy: 0.0000 val_loss: 5.6500 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 11/30: loss: 1.5900 accuracy: 0.0000 val_loss: 5.1900 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 12/30: loss: 1.2000 accuracy: 0.0000 val_loss: 4.7000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 13/30: loss: 0.9000 accuracy: 0.0000 val_loss: 4.1900 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 14/30: loss: 0.6800 accuracy: 0.0000 val_loss: 3.6600 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 15/30: loss: 0.5200 accuracy: 0.0000 val_loss: 3.1200 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 16/30: loss: 0.4000 accuracy: 0.0000 val_loss: 2.5800 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 17/30: loss: 0.3100 accuracy: 0.0000 val_loss: 2.0400 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 18/30: loss: 0.2400 accuracy: 0.0000 val_loss: 1.5000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 19/30: loss: 0.1800 accuracy: 0.0000 val_loss: 1.0000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 20/30: loss: 0.1300 accuracy: 0.0000 val_loss: 0.5000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 21/30: loss: 0.0900 accuracy: 0.0000 val_loss: 0.2500 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 22/30: loss: 0.0600 accuracy: 0.0000 val_loss: 0.1200 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 23/30: loss: 0.0400 accuracy: 0.0000 val_loss: 0.0600 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 24/30: loss: 0.0300 accuracy: 0.0000 val_loss: 0.0300 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 25/30: loss: 0.0200 accuracy: 0.0000 val_loss: 0.0100 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 26/30: loss: 0.0100 accuracy: 0.0000 val_loss: 0.0000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 27/30: loss: 0.0000 accuracy: 0.0000 val_loss: 0.0000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 28/30: loss: 0.0000 accuracy: 0.0000 val_loss: 0.0000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 29/30: loss: 0.0000 accuracy: 0.0000 val_loss: 0.0000 val_accuracy: 0.0000 100/epoch - 7s/step Epoch 30/30: loss: 0.0000 accuracy: 0.0000 val_loss: 0.0000 val_accuracy: 0.0000 100/epoch - 7s/step </pre>

3.	Accuracy (for all 120 breeds samples)	<p>Training Accuracy - 0.3602 Validation Accuracy - 0.5154 (2/30 epoches)</p> <p>(The issue is likely caused by a misconfiguration or conflict with the Python interpreter, Pylance extension, or Jupyter extension in Visual Studio Code, leading to a failure in launching the Jupyter notebook kernel.)</p>	
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