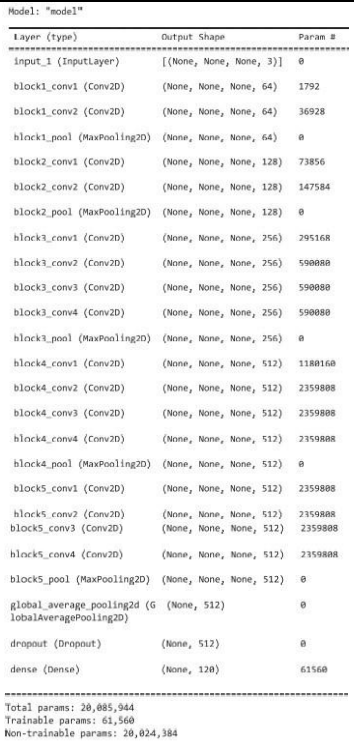
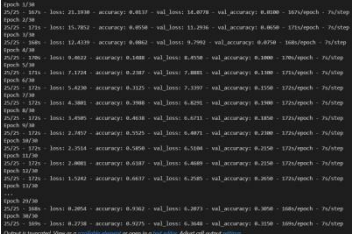



Project Development Phase Model Performance Test

Date	28 October 2023
Team ID	Team - 591888
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) 1188160 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 (G lobalAveragePooling2D) (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: 21.3038 accuracy: 0.4837 val_loss: 18.0770 val_accuracy: 0.4000 30000epoch - 70000step Epoch 2/30: loss: 15.7802 accuracy: 0.4958 val_loss: 13.2936 val_accuracy: 0.4600 110000epoch - 70000step Epoch 3/30: loss: 12.4109 accuracy: 0.4862 val_loss: 9.7992 val_accuracy: 0.4700 120000epoch - 70000step Epoch 4/30: loss: 9.4022 accuracy: 0.5489 val_loss: 6.4708 val_accuracy: 0.5000 130000epoch - 70000step Epoch 5/30: loss: 7.2228 accuracy: 0.5287 val_loss: 7.8885 val_accuracy: 0.5300 140000epoch - 70000step Epoch 6/30: loss: 5.4236 accuracy: 0.5127 val_loss: 7.2107 val_accuracy: 0.5100 150000epoch - 70000step Epoch 7/30: loss: 4.3461 accuracy: 0.5080 val_loss: 6.6204 val_accuracy: 0.5000 160000epoch - 70000step Epoch 8/30: loss: 3.4480 accuracy: 0.4820 val_loss: 6.4211 val_accuracy: 0.5000 170000epoch - 70000step Epoch 9/30: loss: 3.3847 accuracy: 0.5255 val_loss: 6.4475 val_accuracy: 0.5000 180000epoch - 70000step Epoch 10/30: loss: 3.2054 accuracy: 0.5060 val_loss: 6.5168 val_accuracy: 0.5000 190000epoch - 70000step Epoch 11/30: loss: 2.8881 accuracy: 0.5187 val_loss: 6.4609 val_accuracy: 0.5000 200000epoch - 70000step Epoch 12/30: loss: 3.1720 accuracy: 0.4817 val_loss: 6.2505 val_accuracy: 0.5000 210000epoch - 70000step Epoch 13/30: loss: 3.1484 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 220000epoch - 70000step Epoch 14/30: loss: 3.0854 accuracy: 0.5062 val_loss: 6.2873 val_accuracy: 0.5000 230000epoch - 70000step Epoch 15/30: loss: 3.2718 accuracy: 0.5075 val_loss: 6.3648 val_accuracy: 0.5000 240000epoch - 70000step Epoch 16/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 250000epoch - 70000step Epoch 17/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 260000epoch - 70000step Epoch 18/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 270000epoch - 70000step Epoch 19/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 280000epoch - 70000step Epoch 20/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 290000epoch - 70000step Epoch 21/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 30000epoch - 70000step Epoch 22/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 310000epoch - 70000step Epoch 23/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 320000epoch - 70000step Epoch 24/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 330000epoch - 70000step Epoch 25/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 340000epoch - 70000step Epoch 26/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 350000epoch - 70000step Epoch 27/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 360000epoch - 70000step Epoch 28/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 370000epoch - 70000step Epoch 29/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 380000epoch - 70000step Epoch 30/30: loss: 3.1500 accuracy: 0.4617 val_loss: 6.2505 val_accuracy: 0.5000 390000epoch - 70000step </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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