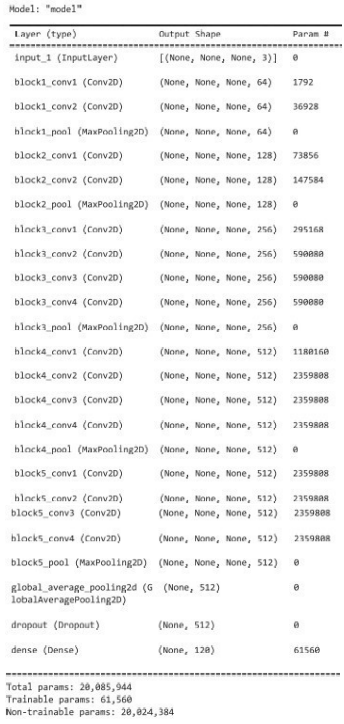
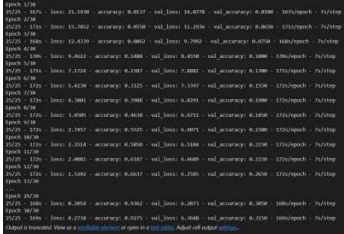



Project Development Phase Model Performance Test

Date	21 November 2023
Team ID	592230
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: "model1" 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 (G (None, 512) 0 lobalAveragePooling2D) dropout (Dropout) (None, 512) 0 dense (Dense) (None, 128) 61568 Total params: 28,885,944 Trainable params: 61,568 Non-trainable params: 28,824,384 </pre>
2.	Accuracy (for first 1000samples)	Training Accuracy - 0.9362 Validation Accuracy - 0.3150 (30/30 epochs)	 <pre> Epoch 1/30: loss: 0.3308 accuracy: 0.8517 val_loss: 14.8778 val_accuracy: 0.4008 1000samples - Training Epoch 2/30: loss: 0.2749 accuracy: 0.8708 val_loss: 11.2036 val_accuracy: 0.4008 1000samples - Training Epoch 3/30: loss: 0.2439 accuracy: 0.8861 val_loss: 9.7903 val_accuracy: 0.4008 1000samples - Training Epoch 4/30: loss: 0.2022 accuracy: 0.9188 val_loss: 8.9708 val_accuracy: 0.3888 1000samples - Training Epoch 5/30: loss: 0.1728 accuracy: 0.9287 val_loss: 7.8881 val_accuracy: 0.3288 1000samples - Training Epoch 6/30: loss: 0.1426 accuracy: 0.9325 val_loss: 7.1397 val_accuracy: 0.2708 1000samples - Training Epoch 7/30: loss: 0.1088 accuracy: 0.9488 val_loss: 6.4391 val_accuracy: 0.2408 1000samples - Training Epoch 8/30: loss: 0.0897 accuracy: 0.9418 val_loss: 6.0251 val_accuracy: 0.2408 1000samples - Training Epoch 9/30: loss: 0.0877 accuracy: 0.9321 val_loss: 6.4873 val_accuracy: 0.2408 1000samples - Training Epoch 10/30: loss: 0.0724 accuracy: 0.9409 val_loss: 6.1584 val_accuracy: 0.2208 1000samples - Training Epoch 11/30: loss: 0.0681 accuracy: 0.9387 val_loss: 6.4489 val_accuracy: 0.2208 1000samples - Training Epoch 12/30: loss: 0.0681 accuracy: 0.9487 val_loss: 6.0285 val_accuracy: 0.2608 1000samples - Training Epoch 13/30: loss: 0.0628 accuracy: 0.9461 val_loss: 6.1871 val_accuracy: 0.2608 1000samples - Training Epoch 14/30: loss: 0.0584 accuracy: 0.9461 val_loss: 6.1871 val_accuracy: 0.2608 1000samples - Training Epoch 15/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 16/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 17/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 18/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 19/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 20/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 21/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 22/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 23/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 24/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 25/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 26/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 27/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 28/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 29/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training Epoch 30/30: loss: 0.0578 accuracy: 0.9475 val_loss: 6.3688 val_accuracy: 0.2608 1000samples - Training </pre>

3.	Accuracy (for all 120 breeds samples)	Training Accuracy - 0.3602 Validation Accuracy - 0.5154 (2/30 epoches) (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.)	
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