

Project Development Phase
Model Performance Test

Date	17 November 2023
Team ID	SI-GuidedProject-611456-1698332996
Project Name	Dog Breed Identification using Transfer Learning
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Values	Screenshot																																																																																																																																																																																																																																																																																												
1.	Model Summary	ImageNetV2 consisting of 19 layers	<table><thead><tr><th>Layer (Type)</th><th>Output Shape</th><th>Param #</th><th>Connected to</th></tr></thead><tbody><tr><td>Input_0 (InputLayer)</td><td>(None, 224, 224, 3)</td><td>0</td><td>[]</td></tr><tr><td>Conv_0 (Conv2D)</td><td>(None, 112, 112, 32)</td><td>864</td><td>["Input_0[0][0]"]</td></tr><tr><td>bn_Conv0 (BatchNormalizat</td><td>(None, 112, 112, 32)</td><td>128</td><td>["Conv_0[0][0]"]</td></tr><tr><td>Conv_1_relu (Relu)</td><td>(None, 112, 112, 32)</td><td>0</td><td>["bn_Conv0[0][0]"]</td></tr><tr><td>expand_dims_depthwise_0 (</td><td>(None, 112, 112, 32)</td><td>288</td><td>["Conv_1_relu[0][0]"]</td></tr><tr><td>expand_dims_depthwise_0n</td><td>(None, 112, 112, 32)</td><td>128</td><td>["expand_dims_depthwise_0[0][0]"]</td></tr><tr><td>expand_dims_depthwise_0n</td><td>(None, 112, 112, 32)</td><td>0</td><td>["expand_dims_depthwise_0n[0][0]"]</td></tr><tr><td>expand_dims_project_0n (</td><td>(None, 112, 112, 16)</td><td>512</td><td>["expand_dims_depthwise_0n[0][0]"]</td></tr><tr><td>expand_dims_project_0n (</td><td>(None, 112, 112, 16)</td><td>64</td><td>["expand_dims_project_0[0][0]"]</td></tr><tr><td>block_1_expand (Conv2D)</td><td>(None, 112, 112, 16)</td><td>1536</td><td>["expand_dims_project_0n[0][0]"]</td></tr><tr><td>block_1_expand_0n (BatchN</td><td>(None, 112, 112, 16)</td><td>164</td><td>["block_1_expand[0][0]"]</td></tr><tr><td>block_1_expand_relu (Relu)</td><td>(None, 112, 112, 16)</td><td>0</td><td>["block_1_expand_0n[0][0]"]</td></tr><tr><td>block_1_pool (Conv2D)</td><td>(None, 112, 112, 16)</td><td>0</td><td>["block_1_expand_relu[0][0]"]</td></tr><tr><td>block_1_depthwise (Depth</td><td>(None, 56, 56, 16)</td><td>864</td><td>["block_1_pool[0][0]"]</td></tr><tr><td>block_1_depthwise_0n (Bat</td><td>(None, 56, 56, 16)</td><td>164</td><td>["block_1_depthwise[0][0]"]</td></tr><tr><td>block_1_depthwise_relu (Re</td><td>(None, 56, 56, 16)</td><td>0</td><td>["block_1_depthwise_0n[0][0]"]</td></tr><tr><td>block_1_project (Conv2D)</td><td>(None, 56, 56, 24)</td><td>2304</td><td>["block_1_depthwise_relu[0][0]"]</td></tr><tr><td>block_1_project_0n (BatchN</td><td>(None, 56, 56, 24)</td><td>96</td><td>["block_1_project[0][0]"]</td></tr><tr><td>block_1_expand (Conv2D)</td><td>(None, 56, 56, 144)</td><td>3456</td><td>["block_1_project_0n[0][0]"]</td></tr><tr><td>block_1_expand_0n (BatchN</td><td>(None, 56, 56, 144)</td><td>576</td><td>["block_1_expand[0][0]"]</td></tr><tr><td>block_1_expand_relu (Relu)</td><td>(None, 56, 56, 144)</td><td>0</td><td>["block_1_expand_0n[0][0]"]</td></tr><tr><td>block_1_depthwise (Depth</td><td>(None, 56, 56, 144)</td><td>1296</td><td>["block_1_expand_relu[0][0]"]</td></tr><tr><td>block_1_depthwise_0n (Bat</td><td>(None, 56, 56, 144)</td><td>576</td><td>["block_1_depthwise[0][0]"]</td></tr><tr><td>block_1_depthwise_relu (Re</td><td>(None, 56, 56, 144)</td><td>0</td><td>["block_1_depthwise_0n[0][0]"]</td></tr><tr><td>block_1_project (Conv2D)</td><td>(None, 56, 56, 24)</td><td>3456</td><td>["block_1_depthwise_relu[0][0]"]</td></tr><tr><td>block_1_project_0n (BatchN</td><td>(None, 56, 56, 24)</td><td>96</td><td>["block_1_project[0][0]"]</td></tr><tr><td>block_1_pool (Conv2D)</td><td>(None, 56, 56, 24)</td><td>0</td><td>["block_1_project_0n[0][0]"; 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block_1_depthwise_0n (Bat	(None, 56, 56, 16)	164	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 56, 56, 16)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 56, 56, 24)	2304	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 56, 56, 24)	96	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand (Conv2D)	(None, 56, 56, 144)	3456	["block_1_project_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_0n (BatchN	(None, 56, 56, 144)	576	["block_1_expand[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_relu (Relu)	(None, 56, 56, 144)	0	["block_1_expand_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise (Depth	(None, 56, 56, 144)	1296	["block_1_expand_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_0n (Bat	(None, 56, 56, 144)	576	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 56, 56, 144)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 56, 56, 24)	3456	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 56, 56, 24)	96	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_pool (Conv2D)	(None, 56, 56, 24)	0	["block_1_project_0n[0][0]"; "block_1_project_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand (Conv2D)	(None, 56, 56, 144)	3456	["block_1_pool[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_0n (BatchN	(None, 56, 56, 144)	576	["block_1_expand[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_relu (Relu)	(None, 56, 56, 144)	0	["block_1_expand_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_pool (Conv2D)	(None, 56, 56, 144)	0	["block_1_expand_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise (Depth	(None, 28, 28, 144)	1296	["block_1_pool[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_0n (Bat	(None, 28, 28, 144)	576	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 28, 28, 144)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 28, 28, 32)	4096	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 28, 28, 32)	128	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand (Conv2D)	(None, 28, 28, 192)	6544	["block_1_project_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_0n (BatchN	(None, 28, 28, 192)	768	["block_1_expand[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_relu (Relu)	(None, 28, 28, 192)	0	["block_1_expand_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise (Depth	(None, 28, 28, 192)	1728	["block_1_expand_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_0n (Bat	(None, 28, 28, 192)	768	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 28, 28, 192)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 28, 28, 32)	6544	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 28, 28, 32)	128	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_pool (Conv2D)	(None, 28, 28, 32)	0	["block_1_project_0n[0][0]"; "block_1_project_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand (Conv2D)	(None, 28, 28, 192)	6544	["block_1_pool[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_0n (BatchN	(None, 28, 28, 192)	768	["block_1_expand[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_relu (Relu)	(None, 28, 28, 192)	0	["block_1_expand_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise (Depth	(None, 14, 14, 192)	1728	["block_1_expand_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_0n (Bat	(None, 14, 14, 192)	768	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 14, 14, 192)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 14, 14, 64)	12288	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 14, 14, 64)	256	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand (Conv2D)	(None, 14, 14, 584)	24676	["block_1_project_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_0n (BatchN	(None, 14, 14, 584)	1536	["block_1_expand[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_relu (Relu)	(None, 14, 14, 584)	0	["block_1_expand_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise (Depth	(None, 14, 14, 584)	3400	["block_1_expand_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_0n (Bat	(None, 14, 14, 584)	1536	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 14, 14, 584)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 14, 14, 64)	24676	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 14, 14, 64)	256	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_pool (Conv2D)	(None, 14, 14, 64)	0	["block_1_project_0n[0][0]"; "block_1_project_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand (Conv2D)	(None, 14, 14, 584)	24676	["block_1_pool[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_0n (BatchN	(None, 14, 14, 584)	1536	["block_1_expand[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_expand_relu (Relu)	(None, 14, 14, 584)	0	["block_1_expand_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise (Depth	(None, 14, 14, 584)	3400	["block_1_expand_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_0n (Bat	(None, 14, 14, 584)	1536	["block_1_depthwise[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_depthwise_relu (Re	(None, 14, 14, 584)	0	["block_1_depthwise_0n[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project (Conv2D)	(None, 14, 14, 64)	24676	["block_1_depthwise_relu[0][0]"]																																																																																																																																																																																																																																																																																												
block_1_project_0n (BatchN	(None, 14, 14, 64)	256	["block_1_project[0][0]"]																																																																																																																																																																																																																																																																																												

[illegible]

2. Accuracy

Training Accuracy - 90.68

Validation Accuracy - 64.50

[illegible]