## **Practical 10**

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## Transfer learning:

Model: "resnet50"

Layer (type)	Output	Shape		Param #	Connected to
input_1 (InputLayer)	[(None	, 224, 2	24, 3)	0	
conv1_pad (ZeroPadding2D)	(None,	230, 23	0, 3)	0	input_1[0][0]
conv1_conv (Conv2D)	(None,	112, 11	2, 64)	9472	conv1_pad[0][0]
conv1_bn (BatchNormalization)	(None,	112, 11	2, 64)	256	conv1_conv[0][0]
conv1_relu (Activation)	(None,	112, 11	2, 64)	0	conv1_bn[0][0]
pool1_pad (ZeroPadding2D)	(None,	114, 11	4, 64)	0	conv1_relu[0][0]
pool1_pool (MaxPooling2D)	(None,	56, 56,	64)	0	pool1_pad[0][0]
conv2_block1_1_conv (Conv2D)	(None,	56, 56,	64)	4160	pool1_pool[0][0]
conv2_block1_1_bn (BatchNormali	(None,	56, 56,	64)	256	conv2_block1_1_conv[0][0]
conv2_block1_1_relu (Activation	(None,	56, 56,	64)	0	conv2_block1_1_bn[0][0]
conv2_block1_2_conv (Conv2D)	(None,	56, 56,	64)	36928	conv2_block1_1_relu[0][0]
conv2_block1_2_bn (BatchNormali	(None,	56, 56,	64)	256	conv2_block1_2_conv[0][0]
conv2_block1_2_relu (Activation	(None,	56, 56,	64)	0	conv2_block1_2_bn[0][0]
conv2_block1_0_conv (Conv2D)	(None,	56, 56,	256)	16640	pool1_pool[0][0]
conv2_block1_3_conv (Conv2D)	(None,	56, 56,	256)	16640	conv2_block1_2_relu[0][0]

## Bottleneck feature:

loss: 1.2262e-05 - accuracy: 1.0000 - val\_loss: 4.7444 - val\_accuracy: 0.4655