Layer (type)	Output	Shape	Param #	Connected to
input_7 (InputLayer)	(None,	224, 224, 3)	0	
conv2d_720 (Conv2D)	(None,	112, 112, 64)	9408	input_7[0][0]
batch_normalization_v1_726 (Bat	(None,	112, 112, 64)	256	conv2d_720[0][0]
activation_726 (Activation)	(None,	112, 112, 64)	0	batch_normalization_v1_726[0][0]
max_pooling2d_6 (MaxPooling2D)	(None,	56, 56, 64)	0	activation_726[0][0]
batch_normalization_v1_727 (Bat	(None,	56, 56, 64)	256	max_pooling2d_6[0][0]
activation_727 (Activation)	(None,	56, 56, 64)	0	batch_normalization_v1_727[0][0]
conv2d_721 (Conv2D)	(None,	56, 56, 128)	8192	activation_727[0][0]
batch_normalization_v1_728 (Bat	(None,	56, 56, 128)	512	conv2d_721[0][0]
activation_728 (Activation)	(None,	56, 56, 128)	0	batch_normalization_v1_728[0][0]
conv2d_722 (Conv2D)	(None,	56, 56, 32)	36864	activation_728[0][0]
concatenate_348 (Concatenate)	(None,	56, 56, 96)	0	max_pooling2d_6[0][0] conv2d_722[0][0]
batch_normalization_v1_729 (Bat	(None,	56, 56, 96)	384	concatenate_348[0][0]
activation_729 (Activation)	(None,	56, 56, 96)	0	batch_normalization_v1_729[0][0]
conv2d_723 (Conv2D)	(None,	56, 56, 128)	12288	activation_729[0][0]
batch_normalization_v1_730 (Bat	(None,	56, 56, 128)	512	conv2d_723[0][0]
activation_730 (Activation)	(None,	56, 56, 128)	0	batch_normalization_v1_730[0][0]
conv2d_724 (Conv2D)	(None,	56, 56, 32)	36864	activation_730[0][0]
concatenate_349 (Concatenate)	(None,	56, 56, 128)	0	concatenate_348[0][0] conv2d_724[0][0]
batch_normalization_v1_731 (Bat	(None,	56, 56, 128)	512	concatenate_349[0][0]
activation_731 (Activation)	(None,	56, 56, 128)	0	batch_normalization_v1_731[0][0]
conv2d_725 (Conv2D)	(None,	56, 56, 128)	16384	activation_731[0][0]
batch_normalization_v1_732 (Bat	(None,	56, 56, 128)	512	conv2d_725[0][0]
activation_732 (Activation)	(None,	56, 56, 128)	0	batch_normalization_v1_732[0][0]
conv2d_726 (Conv2D)	(None,	56, 56, 32)	36864	activation_732[0][0]
concatenate_350 (Concatenate)	(None,	56, 56, 160)	0	concatenate_349[0][0] conv2d_726[0][0]
batch_normalization_v1_733 (Bat	(None,	56, 56, 160)	640	concatenate_350[0][0]
activation_733 (Activation)	(None,	56, 56, 160)	0	batch_normalization_v1_733[0][0]
conv2d_727 (Conv2D)	(None,	56, 56, 128)	20480	activation_733[0][0]
batch_normalization_v1_734 (Bat	(None,	56, 56, 128)	512	conv2d_727[0][0]
activation_734 (Activation)	(None,	56, 56, 128)	0	batch_normalization_v1_734[0][0]
conv2d_728 (Conv2D)	(None,	56, 56, 32)	36864	activation_734[0][0]
concatenate_351 (Concatenate)	(None,	56, 56, 192)	0	concatenate_350[0][0] conv2d_728[0][0]
batch_normalization_v1_735 (Bat	(None,	56, 56, 192)	768	concatenate_351[0][0]
activation_735 (Activation)	(None,	56, 56, 192)	0	batch_normalization_v1_735[0][0]
conv2d_729 (Conv2D)	(None,	56, 56, 128)	24576	activation_735[0][0]
batch_normalization_v1_736 (Bat	(None,	56, 56, 128)	512	conv2d_729[0][0]
activation_736 (Activation)	(None,	56, 56, 128)	0	batch_normalization_v1_736[0][0]
conv2d_730 (Conv2D)	(None,	56, 56, 32)	36864	activation_736[0][0]
concatenate_352 (Concatenate)	(None,	56, 56, 224)	0	concatenate_351[0][0]

batch_normalization_v1_737 (Bat	(None,	56,	56,	224)	896	concatenate_352[0][0]
activation_737 (Activation)	(None,	56,	56,	224)	0	batch_normalization_v1_737[0][0]
conv2d_731 (Conv2D)	(None,	56,	56,	128)	28672	activation_737[0][0]
batch_normalization_v1_738 (Bat	(None,	56,	56,	128)	512	conv2d_731[0][0]
activation_738 (Activation)	(None,	56,	56,	128)	0	batch_normalization_v1_738[0][0]
conv2d_732 (Conv2D)	(None,	56,	56,	32)	36864	activation_738[0][0]
concatenate_353 (Concatenate)	(None,	56,	56,	256)	0	concatenate_352[0][0] conv2d_732[0][0]
batch_normalization_v1_739 (Bat	(None,	56,	56,	256)	1024	concatenate_353[0][0]
activation_739 (Activation)	(None,	56,	56,	256)	0	batch_normalization_v1_739[0][0]
conv2d_733 (Conv2D)	(None,	56,	56,	128)	32768	activation_739[0][0]
average_pooling2d_18 (AveragePo	(None,	28,	28,	128)	0	conv2d_733[0][0]
batch_normalization_v1_740 (Bat	(None,	28,	28,	128)	512	average_pooling2d_18[0][0]
activation_740 (Activation)	(None,	28,	28,	128)	0	batch_normalization_v1_740[0][0]
conv2d_734 (Conv2D)	(None,	28,	28,	128)	16384	activation_740[0][0]
batch_normalization_v1_741 (Bat	(None,	28,	28,	128)	512	conv2d_734[0][0]
activation_741 (Activation)	(None,	28,	28,	128)	0	batch_normalization_v1_741[0][0]
conv2d_735 (Conv2D)	(None,	28,	28,	32)	36864	activation_741[0][0]
concatenate_354 (Concatenate)	(None,	28,	28,	160)	0	average_pooling2d_18[0][0] conv2d_735[0][0]
batch_normalization_v1_742 (Bat	(None,	28,	28,	160)	640	concatenate_354[0][0]
activation_742 (Activation)	(None,	28,	28,	160)	0	batch_normalization_v1_742[0][0]
conv2d_736 (Conv2D)	(None,	28,	28,	128)	20480	activation_742[0][0]
conv2d_736 (Conv2D) batch_normalization_v1_743 (Bat					20480	activation_742[0][0] conv2d_736[0][0]
		28,	28,	128)		
batch_normalization_v1_743 (Bat	(None,	28,	28,	128)	512	conv2d_736[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)	(None,	28,	28,	128) 128) 32)	512	conv2d_736[0][0] batch_normalization_v1_743[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation) conv2d_737 (Conv2D)	(None, (None, (None,	28, 28, 28,	28, 28, 28,	128) 128) 32) 192)	512 0 36864	conv2d_736[0][0] batch_normalization_v1_743[0][0] activation_743[0][0] concatenate_354[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation) conv2d_737 (Conv2D) concatenate_355 (Concatenate)	(None, (None, (None,	28, 28, 28, 28,	28, 28, 28, 28,	128) 128) 32) 192)	512 0 36864 0	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat	(None, (None, (None,	28, 28, 28, 28,	28, 28, 28, 28, 28,	128) 128) 32) 192) 192)	512 0 36864 0	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)	(None, (None, (None, (None, (None, (None, (None,	28, 28, 28, 28, 28,	28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 192)	512 0 36864 0 768	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation) conv2d_737 (Conv2D) concatenate_355 (Concatenate) batch_normalization_v1_744 (Bat activation_744 (Activation) conv2d_738 (Conv2D)	(None, (None, (None, (None, (None, (None, (None,	28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 192) 128)	512 0 36864 0 768 0 24576	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat	(None, (None, (None, (None, (None, (None, (None, (None,	28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 192) 128) 128)	512 0 36864 0 768 0 24576 512	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation)	(None,	28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 128) 128) 128) 32)	512 0 36864 0 768 0 24576 512 0	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation)  conv2d_739 (Conv2D)	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 128) 128) 128) 224)	512 0 36864 0 768 0 24576 512 0 36864	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation) conv2d_737 (Conv2D) concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation) conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation) conv2d_739 (Conv2D) concatenate_356 (Concatenate)	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 192) 128) 128) 224)	512 0 36864 0 768 0 24576 512 0 36864	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]  concatenate_355[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation)  conv2d_739 (Conv2D)  concatenate_356 (Concatenate)  batch_normalization_v1_746 (Bat	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 32) 192) 192) 128) 128) 128) 224)	512 0 36864 0 768 0 24576 512 0 36864 0	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]  concatenate_355[0][0]  concatenate_356[0][0]  concatenate_356[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation)  conv2d_739 (Conv2D)  concatenate_356 (Concatenate)  batch_normalization_v1_746 (Bat activation_746 (Activation)	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 192) 192) 192) 128) 128) 224) 224) 224)	512 0 36864 0 768 0 24576 512 0 36864 0	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]  concatenate_355[0][0]  concatenate_356[0][0]  batch_normalization_v1_746[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation) conv2d_737 (Conv2D) concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation) conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation) conv2d_739 (Conv2D) concatenate_356 (Concatenate)  batch_normalization_v1_746 (Bat activation_746 (Activation) conv2d_740 (Conv2D)	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 192) 192) 192) 128) 128) 224) 224) 128)	512 0 36864 0 768 0 24576 512 0 36864 0 896 0	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]  concatenate_355[0][0]  concatenate_356[0][0]  concatenate_356[0][0]  batch_normalization_v1_746[0][0]  activation_746[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation)  conv2d_739 (Conv2D)  concatenate_356 (Concatenate)  batch_normalization_v1_746 (Bat activation_746 (Activation)  conv2d_740 (Conv2D)  batch_normalization_v1_747 (Bat activation_v1_746 (Bat activation_746 (Activation))	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 192) 192) 192) 128) 128) 224) 224) 128) 128)	512 0 36864 0 768 0 24576 512 0 36864 0 896 0 28672 512	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  conv2d_737[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]  concatenate_355[0][0]  concatenate_356[0][0]  batch_normalization_v1_746[0][0]  activation_746[0][0]  conv2d_740[0][0]
batch_normalization_v1_743 (Bat activation_743 (Activation)  conv2d_737 (Conv2D)  concatenate_355 (Concatenate)  batch_normalization_v1_744 (Bat activation_744 (Activation)  conv2d_738 (Conv2D)  batch_normalization_v1_745 (Bat activation_745 (Activation)  conv2d_739 (Conv2D)  concatenate_356 (Concatenate)  batch_normalization_v1_746 (Bat activation_746 (Activation)  conv2d_740 (Conv2D)  batch_normalization_v1_747 (Bat activation_747 (Activation)	(None,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	128) 128) 192) 192) 192) 128) 128) 128) 224) 224) 128) 128) 128) 32)	512 0 36864 0 768 0 24576 512 0 36864 0 28672 512 0 36864	conv2d_736[0][0]  batch_normalization_v1_743[0][0]  activation_743[0][0]  concatenate_354[0][0]  concatenate_355[0][0]  batch_normalization_v1_744[0][0]  activation_744[0][0]  conv2d_738[0][0]  batch_normalization_v1_745[0][0]  activation_745[0][0]  concatenate_355[0][0]  concatenate_355[0][0]  concatenate_356[0][0]  batch_normalization_v1_746[0][0]  activation_746[0][0]  batch_normalization_v1_747[0][0]  batch_normalization_v1_747[0][0]

activation_748 (Activation)	(None, 28,	28,	256)	0	batch_normalization_v1_748[0][0]
conv2d_742 (Conv2D)	(None, 28,	28,	128)	32768	activation_748[0][0]
batch_normalization_v1_749 (Bat	(None, 28,	28,	128)	512	conv2d_742[0][0]
activation_749 (Activation)	(None, 28,	28,	128)	0	batch_normalization_v1_749[0][0]
conv2d_743 (Conv2D)	(None, 28,	28,	32)	36864	activation_749[0][0]
concatenate_358 (Concatenate)	(None, 28,	28,	288)	0	concatenate_357[0][0] conv2d_743[0][0]
batch_normalization_v1_750 (Bat	(None, 28,	28,	288)	1152	concatenate_358[0][0]
activation_750 (Activation)	(None, 28,	28,	288)	0	batch_normalization_v1_750[0][0]
conv2d_744 (Conv2D)	(None, 28,	28,	128)	36864	activation_750[0][0]
batch_normalization_v1_751 (Bat	(None, 28,	28,	128)	512	conv2d_744[0][0]
activation_751 (Activation)	(None, 28,	28,	128)	0	batch_normalization_v1_751[0][0]
conv2d_745 (Conv2D)	(None, 28,	28,	32)	36864	activation_751[0][0]
concatenate_359 (Concatenate)	(None, 28,	28,	320)	0	concatenate_358[0][0] conv2d_745[0][0]
batch_normalization_v1_752 (Bat	(None, 28,	28,	320)	1280	concatenate_359[0][0]
activation_752 (Activation)	(None, 28,	28,	320)	0	batch_normalization_v1_752[0][0]
conv2d_746 (Conv2D)	(None, 28,	28,	128)	40960	activation_752[0][0]
batch_normalization_v1_753 (Bat	(None, 28,	28,	128)	512	conv2d_746[0][0]
activation_753 (Activation)	(None, 28,	28,	128)	0	batch_normalization_v1_753[0][0]
conv2d_747 (Conv2D)	(None, 28,	28,	32)	36864	activation_753[0][0]
concatenate_360 (Concatenate)	(None, 28,	28,	352)	0	concatenate_359[0][0] conv2d_747[0][0]
batch_normalization_v1_754 (Bat	(None, 28,	28,	352)	1408	concatenate_360[0][0]
activation_754 (Activation)	(None, 28,	28,	352)	0	batch_normalization_v1_754[0][0]
conv2d_748 (Conv2D)	(None, 28,	28,	128)	45056	activation_754[0][0]
batch_normalization_v1_755 (Bat	(None, 28,	28,	128)	512	conv2d_748[0][0]
activation_755 (Activation)	(None, 28,	28,	128)	0	batch_normalization_v1_755[0][0]
conv2d_749 (Conv2D)	(None, 28,	28,	32)	36864	activation_755[0][0]
concatenate_361 (Concatenate)	(None, 28,	28,	384)	0	concatenate_360[0][0] conv2d_749[0][0]
batch_normalization_v1_756 (Bat	(None, 28,	28,	384)	1536	concatenate_361[0][0]
activation_756 (Activation)	(None, 28,	28,	384)	0	batch_normalization_v1_756[0][0]
conv2d_750 (Conv2D)	(None, 28,	28,	128)	49152	activation_756[0][0]
batch_normalization_v1_757 (Bat	(None, 28,	28,	128)	512	conv2d_750[0][0]
activation_757 (Activation)	(None, 28,	28,	128)	0	batch_normalization_v1_757[0][0]
conv2d_751 (Conv2D)	(None, 28,	28,	32)	36864	activation_757[0][0]
concatenate_362 (Concatenate)	(None, 28,	28,	416)	0	concatenate_361[0][0] conv2d_751[0][0]
batch_normalization_v1_758 (Bat	(None, 28,	28,	416)	1664	concatenate_362[0][0]
activation_758 (Activation)	(None, 28,	28,	416)	0	batch_normalization_v1_758[0][0]
conv2d_752 (Conv2D)	(None, 28,	28,	128)	53248	activation_758[0][0]
batch_normalization_v1_759 (Bat	(None, 28,	28,	128)	512	conv2d_752[0][0]
activation_759 (Activation)	(None, 28,	28,	128)	0	batch_normalization_v1_759[0][0]
conv2d_753 (Conv2D)	(None, 28,	28,	32)	36864	activation_759[0][0]

batch_normalization_v1_760 (bat (None, 28, 28, 448) 1792 concatenate_i63[0][0] activation_760 (Activation) (Rone, 28, 28, 128) 0 batch_normalization_v1_760[0][0] conv2d_754 (Conv2D) (Rone, 28, 28, 128) 57344 activation_760[0][0] batch_normalization_v1_761 (Bat (None, 28, 28, 128) 512 conv2d_754[0][0] activation_761 (Activation) (Rone, 28, 28, 128) 512 conv2d_754[0][0] conv2d_755 (Conv2D) (Rone, 28, 28, 28, 128) 0 batch_normalization_v1_761[0][0] conv2d_755 (Conv2D) (Rone, 28, 28, 480) 0 concatenate_activation_v1_762 (Bat (Rone, 28, 28, 480) 0 conv2d_755[0][0] batch_normalization_v1_762 (Bat (Rone, 28, 28, 480) 0 batch_normalization_v1_762[0][0] conv2d_756 (Conv2D) (Rone, 28, 28, 480) 0 batch_normalization_v1_762[0][0] conv2d_756 (Conv2D) (Rone, 28, 28, 128) 512 conv2d_756[0][0] batch_normalization_v1_763 (Bat (Rone, 28, 28, 128) 512 conv2d_756[0][0] conv2d_757 (Conv2D) (Rone, 28, 28, 128) 512 conv2d_756[0][0] conv2d_757 (Conv2D) (Rone, 28, 28, 128) 0 batch_normalization_v1_763[0][0] conv2d_757 (Conv2D) (Rone, 28, 28, 512) 0 batch_normalization_v1_763[0][0] conv2d_757 (Conv2D) (Rone, 28, 28, 512) 0 concatenate_activation_v1_764 (Bat (Rone, 28, 28, 512) 0 conv2d_757[0][0]  batch_normalization_v1_764 (Bat (Rone, 28, 28, 512) 0 batch_normalization_v1_764[0][0] conv2d_758 (Conv2D) (Rone, 14, 14, 256) 0 conv2d_758[0][0]  activation_764 (Activation) (Rone, 28, 28, 512) 0 batch_normalization_v1_764[0][0] conv2d_759 (Conv2D) (Rone, 14, 14, 256) 0 batch_normalization_v1_765 (Bat (Rone, 14, 14, 256) 0 conv2d_758[0][0]  activation_766 (Rotivation) (Rone, 14, 14, 128) 0 batch_normalization_v1_765[0][0]  activation_765 (Rotivation) (Rone, 14, 14, 128) 0 batch_normalization_v1_765[0][0]  conv2d_760 (Conv2D) (Rone, 14, 14, 128) 0 batch_normalization_v1_766[0][0]  conv2d_760 (Conv2D) (Rone, 14, 14, 128) 0 batch_normalization_v1_766[0][0]  conv2d_760 (Conv2D) (Rone, 14, 14, 128) 0 batch_normalization_v1_766[0][0]  conv2d_760 (Conv2D) (Rone, 14, 14, 128) 0 batch_normalization_v1_760[0][0]  conv2d_762 (Conv2D) (Rone, 14, 14, 128)	concatenate_363 (Concatenate)	(None,	28,	28,	448)	0	concatenate_362[0][0] conv2d_753[0][0]
conv2d_754 (Conv2D) (None, 28, 28, 128) 57344 activation_760[0][0] batch_normalization_v1_761 (Bat (None, 28, 28, 128) 512 conv2d_754[0][0] activation_761 (Activation) (None, 28, 28, 128) 512 conv2d_754[0][0] activation_761 (Activation) (None, 28, 28, 128) 0 batch_normalization_v1_761[0][0] convad_755 (Conv2D) (None, 28, 28, 480) 0 concatenate_363[0][0] batch_normalization_v1_762 (Bat (None, 28, 28, 480) 0 concatenate_363[0][0] activation_762 (Activation) (None, 28, 28, 480) 0 batch_normalization_v1_762[0][0] conv2d_756 (Conv2D) (None, 28, 28, 128) 61440 activation_762[0][0] activation_763 (Activation) (None, 28, 28, 128) 61440 activation_762[0][0] activation_763 (Activation) (None, 28, 28, 128) 0 batch_normalization_v1_763[0][0] activation_763 (Activation) (None, 28, 28, 128) 0 batch_normalization_v1_763[0][0] activation_763 (Activation) (None, 28, 28, 128) 0 batch_normalization_v1_763[0][0] activation_763 (Activation) (None, 28, 28, 128) 0 concatenate_365[0][0] activation_764 (Activation) (None, 28, 28, 512) 0 batch_normalization_v1_764[0][0] activation_765 (Activation) (None, 28, 28, 512) 0 batch_normalization_v1_764[0][0] activation_764 (Activation) (None, 28, 28, 28, 512) 0 batch_normalization_v1_764[0][0] activation_765 (Activation) (None, 28, 28, 28, 512) 0 batch_normalization_v1_764[0][0] activation_765 (Activation) (None, 28, 28, 28, 512) 0 batch_normalization_v1_764[0][0] activation_765 (Activation) (None, 14, 14, 12, 256) 0 conv2d_759[0][0] activation_765 (Activation) (None, 14, 14, 256) 0 conv2d_759[0][0] batch_normalization_v1_765 (Rat (None, 14, 14, 256) 0 batch_normalization_v1_765[0][0] activation_766 (Activation) (None, 14, 14, 128) 512 conv2d_759[0][0] activation_766 (Activation) (None, 14, 14, 128) 512 conv2d_759[0][0] activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0] activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0] activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0] activation_766 (Activation) (	batch_normalization_v1_760 (Bat	(None,	28,	28,	448)	1792	concatenate_363[0][0]
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conv2d_755[0][0]	conv2d_755 (Conv2D)	(None,	28,	28,	32)	36864	activation_761[0][0]
activation_762 (Activation) (None, 28, 28, 480) 0 batch_normalization_v1_762[0][0] conv2d_756 (Conv2D) (None, 28, 28, 128) 61440 activation_762[0][0] batch_normalization_v1_763 (Bat (None, 28, 28, 128) 512 conv2d_756[0][0] activation_763 (Activation) (None, 28, 28, 128) 0 batch_normalization_v1_763[0][0] conv2d_757 (Conv2D) (None, 28, 28, 32) 36864 activation_763[0][0] conv2d_757 (Conv2D) (None, 28, 28, 512) 0 concatenate_364[0][0] conv2d_757[0][0] batch_normalization_v1_764 (Bat (None, 28, 28, 512) 0 concatenate_365[0][0] activation_764 (Activation) (None, 28, 28, 512) 0 batch_normalization_v1_764[0][0] conv2d_758 (Conv2D) (None, 28, 28, 512) 0 batch_normalization_v1_764[0][0] activation_764 (Activation) (None, 28, 28, 28, 512) 0 batch_normalization_v1_764[0][0] average_pooling2d_19 (AveragePo (None, 14, 14, 256) 0 conv2d_758[0][0] batch_normalization_v1_765 (Bat (None, 14, 14, 256) 0 conv2d_758[0][0] activation_765 (Activation) (None, 14, 14, 128) 32768 activation_765 (Activation) (None, 14, 14, 128) 32768 activation_766[0][0] activation_766 (Activation) (None, 14, 14, 128) 512 conv2d_759[0][0] activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0] activation_766 (Activation) (None, 14, 14, 128) 512 conv2d_759[0][0] activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0] activation_767 (Activation) (None, 14, 14, 288) 0 activation_766[0][0] activation_767 (Activation) (None, 14, 14, 288) 0 average_pooling2d_19[0][0] activation_767 (Activation) (None, 14, 14, 128) 512 conv2d_760[0][0] activation_767 (Activation) (None, 14, 14, 128) 512 conv2d_760[0][0] activation_767 (Activation) (None, 14, 14, 128) 512 conv2d_760[0][0] activation_767 (Activation) (None, 14, 14, 128) 512 conv2d_761[0][0] activation_767 (Activation) (None, 14, 14, 128) 512 conv2d_761[0][0] activation_767 (Activation) (None, 14, 14, 128) 512 conv2d_761[0][0] activation_769 (Activation) (None, 14, 14, 128) 512 conv2d_761[0][0] activation_769 (Activation) (None, 14, 14, 128) 512 conv2d_761[0][	concatenate_364 (Concatenate)	(None,	28,	28,	480)	0	
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batch_normalization_v1_766 (Bat (None, 14, 14, 128) 512 conv2d_759[0][0]  activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0]  conv2d_760 (Conv2D) (None, 14, 14, 32) 36864 activation_766[0][0]  concatenate_366 (Concatenate) (None, 14, 14, 288) 0 average_pooling2d_19[0][0]  batch_normalization_v1_767 (Bat (None, 14, 14, 288) 1152 concatenate_366[0][0]  activation_767 (Activation) (None, 14, 14, 288) 0 batch_normalization_v1_767[0][0]  conv2d_761 (Conv2D) (None, 14, 14, 128) 36864 activation_767[0][0]  batch_normalization_v1_768 (Bat (None, 14, 14, 128) 512 conv2d_761[0][0]  activation_768 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_768[0][0]  conv2d_762 (Conv2D) (None, 14, 14, 32) 36864 activation_768[0][0]  concatenate_367 (Concatenate) (None, 14, 14, 320) 0 concatenate_366[0][0]  concatenate_367 (Concatenate) (None, 14, 14, 320) 1280 concatenate_366[0][0]  activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  activation_769 (Activation) (None, 14, 14, 128) 40960 activation_769[0][0]  activation_770 (Activation) (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 32) 36864 activation_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]	activation_765 (Activation)	(None,	14,	14,	256)	0	batch_normalization_v1_765[0][0]
activation_766 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_766[0][0]  conv2d_760 (Conv2D) (None, 14, 14, 32) 36864 activation_766[0][0]  concatenate_366 (Concatenate) (None, 14, 14, 288) 0 average_pooling2d_19[0][0]  batch_normalization_v1_767 (Bat (None, 14, 14, 288) 1152 concatenate_366[0][0]  activation_767 (Activation) (None, 14, 14, 288) 0 batch_normalization_v1_767[0][0]  conv2d_761 (Conv2D) (None, 14, 14, 128) 36864 activation_767[0][0]  batch_normalization_v1_768 (Bat (None, 14, 14, 128) 512 conv2d_761[0][0]  activation_768 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_768[0][0]  conv2d_762 (Conv2D) (None, 14, 14, 32) 36864 activation_768[0][0]  concatenate_367 (Concatenate) (None, 14, 14, 320) 0 concatenate_366[0][0]  batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280 concatenate_367[0][0]  activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  activation_769 (Activation) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	conv2d_759 (Conv2D)	(None,	14,	14,	128)	32768	activation_765[0][0]
conv2d_760 (Conv2D)         (None, 14, 14, 32)         36864         activation_766[0][0]           concatenate_366 (Concatenate)         (None, 14, 14, 288)         0         average_pooling2d_19[0][0]           batch_normalization_v1_767 (Bat (None, 14, 14, 288)         1152         concatenate_366[0][0]           activation_767 (Activation)         (None, 14, 14, 288)         0         batch_normalization_v1_767[0][0]           conv2d_761 (Conv2D)         (None, 14, 14, 128)         36864         activation_767[0][0]           batch_normalization_v1_768 (Bat (None, 14, 14, 128)         512         conv2d_761[0][0]           activation_768 (Activation)         (None, 14, 14, 32)         36864         activation_768[0][0]           conv2d_762 (Conv2D)         (None, 14, 14, 32)         36864         activation_768[0][0]           concatenate_367 (Concatenate)         (None, 14, 14, 320)         0         concatenate_366[0][0]           batch_normalization_v1_769 (Bat (None, 14, 14, 320)         1280         concatenate_367[0][0]           activation_769 (Activation)         (None, 14, 14, 320)         0         batch_normalization_v1_769[0][0]           conv2d_763 (Conv2D)         (None, 14, 14, 128)         40960         activation_769[0][0]           batch_normalization_v1_770 (Bat (None, 14, 14, 128)         0         batch_normalization_v1_770[0][0]	batch_normalization_v1_766 (Bat	(None,	14,	14,	128)	512	conv2d_759[0][0]
concatenate_366 (Concatenate) (None, 14, 14, 288) 0 average_pooling2d_19[0][0] conv2d_760[0][0] batch_normalization_v1_767 (Bat (None, 14, 14, 288) 1152 concatenate_366[0][0] activation_767 (Activation) (None, 14, 14, 288) 0 batch_normalization_v1_767[0][0] conv2d_761 (Conv2D) (None, 14, 14, 128) 36864 activation_767[0][0] activation_768 (Activation) (None, 14, 14, 128) 512 conv2d_761[0][0] activation_768 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_768[0][0] conv2d_762 (Conv2D) (None, 14, 14, 32) 36864 activation_768[0][0] concatenate_367 (Concatenate) (None, 14, 14, 320) 0 concatenate_366[0][0] conv2d_762[0][0] activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0] activation_769 (Activation) (None, 14, 14, 128) 40960 activation_769[0][0] batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0] activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0] activation_770 (Activation) (None, 14, 14, 32) 36864 activation_770[0][0] conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0] conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0] concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	activation_766 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_766[0][0]
Conv2d_760[0][0]	conv2d_760 (Conv2D)	(None,	14,	14,	32)	36864	activation_766[0][0]
activation_767 (Activation) (None, 14, 14, 288) 0 batch_normalization_v1_767[0][0]  conv2d_761 (Conv2D) (None, 14, 14, 128) 36864 activation_767[0][0]  batch_normalization_v1_768 (Bat (None, 14, 14, 128) 512 conv2d_761[0][0]  activation_768 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_768[0][0]  conv2d_762 (Conv2D) (None, 14, 14, 32) 36864 activation_768[0][0]  concatenate_367 (Concatenate) (None, 14, 14, 320) 0 concatenate_366[0][0]  conv2d_762[0][0]  batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280 concatenate_367[0][0]  activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  conv2d_763 (Conv2D) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	concatenate_366 (Concatenate)	(None,	14,	14,	288)	0	
conv2d_761 (Conv2D)         (None, 14, 14, 128) 36864         activation_767[0][0]           batch_normalization_v1_768 (Bat (None, 14, 14, 128) 512         conv2d_761[0][0]           activation_768 (Activation)         (None, 14, 14, 128) 0         batch_normalization_v1_768[0][0]           conv2d_762 (Conv2D)         (None, 14, 14, 32) 36864         activation_768[0][0]           concatenate_367 (Concatenate)         (None, 14, 14, 320) 0         concatenate_366[0][0]           batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280         concatenate_367[0][0]           activation_769 (Activation)         (None, 14, 14, 320) 0         batch_normalization_v1_769[0][0]           conv2d_763 (Conv2D)         (None, 14, 14, 128) 40960         activation_769[0][0]           batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512         conv2d_763[0][0]           activation_770 (Activation)         (None, 14, 14, 128) 0         batch_normalization_v1_770[0][0]           conv2d_764 (Conv2D)         (None, 14, 14, 32) 36864         activation_770[0][0]           concatenate_368 (Concatenate)         (None, 14, 14, 352) 0         concatenate_367[0][0]	batch_normalization_v1_767 (Bat	(None,	14,	14,	288)	1152	concatenate_366[0][0]
batch_normalization_v1_768 (Bat (None, 14, 14, 128) 512         conv2d_761[0][0]           activation_768 (Activation)         (None, 14, 14, 128) 0         batch_normalization_v1_768[0][0]           conv2d_762 (Conv2D)         (None, 14, 14, 32) 36864         activation_768[0][0]           concatenate_367 (Concatenate)         (None, 14, 14, 320) 0         concatenate_366[0][0]           batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280         concatenate_367[0][0]           activation_769 (Activation)         (None, 14, 14, 320) 0         batch_normalization_v1_769[0][0]           conv2d_763 (Conv2D)         (None, 14, 14, 128) 40960         activation_769[0][0]           batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512         conv2d_763[0][0]           activation_770 (Activation)         (None, 14, 14, 128) 0         batch_normalization_v1_770[0][0]           conv2d_764 (Conv2D)         (None, 14, 14, 32) 36864         activation_770[0][0]           concatenate_368 (Concatenate)         (None, 14, 14, 352) 0         concatenate_367[0][0]	activation_767 (Activation)	(None,	14,	14,	288)	0	batch_normalization_v1_767[0][0]
activation_768 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_768[0][0]  conv2d_762 (Conv2D) (None, 14, 14, 32) 36864 activation_768[0][0]  concatenate_367 (Concatenate) (None, 14, 14, 320) 0 concatenate_366[0][0]  batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280 concatenate_367[0][0]  activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  conv2d_763 (Conv2D) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	conv2d_761 (Conv2D)	(None,	14,	14,	128)	36864	activation_767[0][0]
conv2d_762 (Conv2D)         (None, 14, 14, 32)         36864         activation_768[0][0]           concatenate_367 (Concatenate)         (None, 14, 14, 320)         0         concatenate_366[0][0]           batch_normalization_v1_769 (Bat (None, 14, 14, 320)         1280         concatenate_367[0][0]           activation_769 (Activation)         (None, 14, 14, 320)         0         batch_normalization_v1_769[0][0]           conv2d_763 (Conv2D)         (None, 14, 14, 128)         40960         activation_769[0][0]           batch_normalization_v1_770 (Bat (None, 14, 14, 128)         512         conv2d_763[0][0]           activation_770 (Activation)         (None, 14, 14, 128)         0         batch_normalization_v1_770[0][0]           conv2d_764 (Conv2D)         (None, 14, 14, 32)         36864         activation_770[0][0]           concatenate_368 (Concatenate)         (None, 14, 14, 352)         0         concatenate_367[0][0]	batch_normalization_v1_768 (Bat	(None,	14,	14,	128)	512	conv2d_761[0][0]
concatenate_367 (Concatenate) (None, 14, 14, 320) 0 concatenate_366[0][0]  batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280 concatenate_367[0][0]  activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  conv2d_763 (Conv2D) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	activation_768 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_768[0][0]
conv2d_762[0][0]  batch_normalization_v1_769 (Bat (None, 14, 14, 320) 1280 concatenate_367[0][0]  activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  conv2d_763 (Conv2D) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	conv2d_762 (Conv2D)	(None,	14,	14,	32)	36864	activation_768[0][0]
activation_769 (Activation) (None, 14, 14, 320) 0 batch_normalization_v1_769[0][0]  conv2d_763 (Conv2D) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	concatenate_367 (Concatenate)	(None,	14,	14,	320)	0	
conv2d_763 (Conv2D) (None, 14, 14, 128) 40960 activation_769[0][0]  batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	batch_normalization_v1_769 (Bat	(None,	14,	14,	320)	1280	concatenate_367[0][0]
batch_normalization_v1_770 (Bat (None, 14, 14, 128) 512 conv2d_763[0][0]  activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0]  conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0]  concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	activation_769 (Activation)	(None,	14,	14,	320)	0	batch_normalization_v1_769[0][0]
activation_770 (Activation) (None, 14, 14, 128) 0 batch_normalization_v1_770[0][0] conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0] concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	conv2d_763 (Conv2D)	(None,	14,	14,	128)	40960	activation_769[0][0]
conv2d_764 (Conv2D) (None, 14, 14, 32) 36864 activation_770[0][0] concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	batch_normalization_v1_770 (Bat	(None,	14,	14,	128)	512	conv2d_763[0][0]
concatenate_368 (Concatenate) (None, 14, 14, 352) 0 concatenate_367[0][0]	activation_770 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_770[0][0]
	conv2d_764 (Conv2D)	(None,	14,	14,	32)	36864	activation_770[0][0]
	concatenate_368 (Concatenate)	(None,	14,	14,	352)	0	

batch_normalization_v1_771 (Bat	(None,	14,	14,	352)	1408	concatenate_368[0][0]
activation_771 (Activation)	(None,	14,	14,	352)	0	batch_normalization_v1_771[0][0]
conv2d_765 (Conv2D)	(None,	14,	14,	128)	45056	activation_771[0][0]
batch_normalization_v1_772 (Bat	(None,	14,	14,	128)	512	conv2d_765[0][0]
activation_772 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_772[0][0]
conv2d_766 (Conv2D)	(None,	14,	14,	32)	36864	activation_772[0][0]
concatenate_369 (Concatenate)	(None,	14,	14,	384)	0	concatenate_368[0][0] conv2d_766[0][0]
batch_normalization_v1_773 (Bat	(None,	14,	14,	384)	1536	concatenate_369[0][0]
activation_773 (Activation)	(None,	14,	14,	384)	0	batch_normalization_v1_773[0][0]
conv2d_767 (Conv2D)	(None,	14,	14,	128)	49152	activation_773[0][0]
batch_normalization_v1_774 (Bat	(None,	14,	14,	128)	512	conv2d_767[0][0]
activation_774 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_774[0][0]
conv2d_768 (Conv2D)	(None,	14,	14,	32)	36864	activation_774[0][0]
concatenate_370 (Concatenate)	(None,	14,	14,	416)	0	concatenate_369[0][0] conv2d_768[0][0]
batch_normalization_v1_775 (Bat	(None,	14,	14,	416)	1664	concatenate_370[0][0]
activation_775 (Activation)	(None,	14,	14,	416)	0	batch_normalization_v1_775[0][0]
conv2d_769 (Conv2D)	(None,	14,	14,	128)	53248	activation_775[0][0]
batch_normalization_v1_776 (Bat	(None,	14,	14,	128)	512	conv2d_769[0][0]
activation_776 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_776[0][0]
conv2d_770 (Conv2D)	(None,	14,	14,	32)	36864	activation_776[0][0]
concatenate_371 (Concatenate)	(None,	14,	14,	448)	0	concatenate_370[0][0] conv2d_770[0][0]
batch_normalization_v1_777 (Bat	(None,	14,	14,	448)	1792	concatenate_371[0][0]
activation_777 (Activation)	(None,	14,	14,	448)	0	batch_normalization_v1_777[0][0]
conv2d_771 (Conv2D)	(None,	14,	14,	128)	57344	activation_777[0][0]
batch_normalization_v1_778 (Bat	(None,	14,	14,	128)	512	conv2d_771[0][0]
activation_778 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_778[0][0]
conv2d_772 (Conv2D)	(None,	14,	14,	32)	36864	activation_778[0][0]
concatenate_372 (Concatenate)	(None,	14,	14,	480)	0	concatenate_371[0][0] conv2d_772[0][0]
batch_normalization_v1_779 (Bat	(None,	14,	14,	480)	1920	concatenate_372[0][0]
activation_779 (Activation)	(None,	14,	14,	480)	0	batch_normalization_v1_779[0][0]
conv2d_773 (Conv2D)	(None,	14,	14,	128)	61440	activation_779[0][0]
batch_normalization_v1_780 (Bat	(None,	14,	14,	128)	512	conv2d_773[0][0]
activation_780 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_780[0][0]
conv2d_774 (Conv2D)	(None,	14,	14,	32)	36864	activation_780[0][0]
concatenate_373 (Concatenate)	(None,	14,	14,	512)	0	concatenate_372[0][0] conv2d_774[0][0]
batch_normalization_v1_781 (Bat	(None,	14,	14,	512)	2048	concatenate_373[0][0]
activation_781 (Activation)	(None,	14,	14,	512)	0	batch_normalization_v1_781[0][0]
conv2d_775 (Conv2D)	(None,	14,	14,	128)	65536	activation_781[0][0]
batch_normalization_v1_782 (Bat	(None,	14,	14,	128)	512	conv2d_775[0][0]
activation_782 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_782[0][0]
conv2d_776 (Conv2D)	(None,	14,	14,	32)	36864	activation_782[0][0]

concatenate_374 (Concatenate)	(None, 14, 14, 544	) 0	concatenate_373[0][0] conv2d_776[0][0]
batch_normalization_v1_783 (Bat	(None, 14, 14, 544	) 2176	concatenate_374[0][0]
activation_783 (Activation)	(None, 14, 14, 544	) 0	batch_normalization_v1_783[0][0]
conv2d_777 (Conv2D)	(None, 14, 14, 128	) 69632	activation_783[0][0]
batch_normalization_v1_784 (Bat	(None, 14, 14, 128	) 512	conv2d_777[0][0]
activation_784 (Activation)	(None, 14, 14, 128	) 0	batch_normalization_v1_784[0][0]
conv2d_778 (Conv2D)	(None, 14, 14, 32)	36864	activation_784[0][0]
concatenate_375 (Concatenate)	(None, 14, 14, 576	) 0	concatenate_374[0][0] conv2d_778[0][0]
batch_normalization_v1_785 (Bat	(None, 14, 14, 576	) 2304	concatenate_375[0][0]
activation_785 (Activation)	(None, 14, 14, 576	) 0	batch_normalization_v1_785[0][0]
conv2d_779 (Conv2D)	(None, 14, 14, 128	) 73728	activation_785[0][0]
batch_normalization_v1_786 (Bat	(None, 14, 14, 128	) 512	conv2d_779[0][0]
activation_786 (Activation)	(None, 14, 14, 128	) 0	batch_normalization_v1_786[0][0]
conv2d_780 (Conv2D)	(None, 14, 14, 32)	36864	activation_786[0][0]
concatenate_376 (Concatenate)	(None, 14, 14, 608	) 0	concatenate_375[0][0] conv2d_780[0][0]
batch_normalization_v1_787 (Bat	(None, 14, 14, 608	) 2432	concatenate_376[0][0]
activation_787 (Activation)	(None, 14, 14, 608	) 0	batch_normalization_v1_787[0][0]
conv2d_781 (Conv2D)	(None, 14, 14, 128	) 77824	activation_787[0][0]
batch_normalization_v1_788 (Bat	(None, 14, 14, 128	) 512	conv2d_781[0][0]
activation_788 (Activation)	(None, 14, 14, 128	) 0	batch_normalization_v1_788[0][0]
conv2d_782 (Conv2D)	(None, 14, 14, 32)	36864	activation_788[0][0]
concatenate_377 (Concatenate)	(None, 14, 14, 640	) 0	concatenate_376[0][0] conv2d_782[0][0]
batch_normalization_v1_789 (Bat	(None, 14, 14, 640	) 2560	concatenate_377[0][0]
activation_789 (Activation)	(None, 14, 14, 640	) 0	batch_normalization_v1_789[0][0]
conv2d_783 (Conv2D)	(None, 14, 14, 128	) 81920	activation_789[0][0]
batch_normalization_v1_790 (Bat	(None, 14, 14, 128	) 512	conv2d_783[0][0]
activation_790 (Activation)	(None, 14, 14, 128	) 0	batch_normalization_v1_790[0][0]
conv2d_784 (Conv2D)	(None, 14, 14, 32)	36864	activation_790[0][0]
concatenate_378 (Concatenate)	(None, 14, 14, 672	) 0	concatenate_377[0][0] conv2d_784[0][0]
batch_normalization_v1_791 (Bat	(None, 14, 14, 672	) 2688	concatenate_378[0][0]
activation_791 (Activation)	(None, 14, 14, 672	) 0	batch_normalization_v1_791[0][0]
conv2d_785 (Conv2D)	(None, 14, 14, 128	) 86016	activation_791[0][0]
batch_normalization_v1_792 (Bat	(None, 14, 14, 128	) 512	conv2d_785[0][0]
activation_792 (Activation)	(None, 14, 14, 128	) 0	batch_normalization_v1_792[0][0]
conv2d_786 (Conv2D)	(None, 14, 14, 32)	36864	activation_792[0][0]
concatenate_379 (Concatenate)	(None, 14, 14, 704	) 0	concatenate_378[0][0] conv2d_786[0][0]
batch_normalization_v1_793 (Bat	(None, 14, 14, 704	) 2816	concatenate_379[0][0]
activation_793 (Activation)	(None, 14, 14, 704	) 0	batch_normalization_v1_793[0][0]
conv2d_787 (Conv2D)	(None, 14, 14, 128	) 90112	activation_793[0][0]
batch_normalization_v1_794 (Bat	(None, 14, 14, 128	) 512	conv2d_787[0][0]

activation_794 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_794[0][0]
conv2d_788 (Conv2D)	(None,	14,	14,	32)	36864	activation_794[0][0]
concatenate_380 (Concatenate)	(None,	14,	14,	736)	0	concatenate_379[0][0] conv2d_788[0][0]
batch_normalization_v1_795 (Bat	(None,	14,	14,	736)	2944	concatenate_380[0][0]
activation_795 (Activation)	(None,	14,	14,	736)	0	batch_normalization_v1_795[0][0]
conv2d_789 (Conv2D)	(None,	14,	14,	128)	94208	activation_795[0][0]
batch_normalization_v1_796 (Bat	(None,	14,	14,	128)	512	conv2d_789[0][0]
activation_796 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_796[0][0]
conv2d_790 (Conv2D)	(None,	14,	14,	32)	36864	activation_796[0][0]
concatenate_381 (Concatenate)	(None,	14,	14,	768)	0	concatenate_380[0][0] conv2d_790[0][0]
batch_normalization_v1_797 (Bat	(None,	14,	14,	768)	3072	concatenate_381[0][0]
activation_797 (Activation)	(None,	14,	14,	768)	0	batch_normalization_v1_797[0][0]
conv2d_791 (Conv2D)	(None,	14,	14,	128)	98304	activation_797[0][0]
batch_normalization_v1_798 (Bat	(None,	14,	14,	128)	512	conv2d_791[0][0]
activation_798 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_798[0][0]
conv2d_792 (Conv2D)	(None,	14,	14,	32)	36864	activation_798[0][0]
concatenate_382 (Concatenate)	(None,	14,	14,	800)	0	concatenate_381[0][0] conv2d_792[0][0]
batch_normalization_v1_799 (Bat	(None,	14,	14,	800)	3200	concatenate_382[0][0]
activation_799 (Activation)	(None,	14,	14,	800)	0	batch_normalization_v1_799[0][0]
conv2d_793 (Conv2D)	(None,	14,	14,	128)	102400	activation_799[0][0]
batch_normalization_v1_800 (Bat	(None,	14,	14,	128)	512	conv2d_793[0][0]
activation_800 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_800[0][0]
conv2d_794 (Conv2D)	(None,	14,	14,	32)	36864	activation_800[0][0]
concatenate_383 (Concatenate)	(None,	14,	14,	832)	0	concatenate_382[0][0] conv2d_794[0][0]
batch_normalization_v1_801 (Bat	(None,	14,	14,	832)	3328	concatenate_383[0][0]
activation_801 (Activation)	(None,	14,	14,	832)	0	batch_normalization_v1_801[0][0]
conv2d_795 (Conv2D)	(None,	14,	14,	128)	106496	activation_801[0][0]
batch_normalization_v1_802 (Bat	(None,	14,	14,	128)	512	conv2d_795[0][0]
activation_802 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_802[0][0]
conv2d_796 (Conv2D)	(None,	14,	14,	32)	36864	activation_802[0][0]
concatenate_384 (Concatenate)	(None,	14,	14,	864)	0	concatenate_383[0][0] conv2d_796[0][0]
batch_normalization_v1_803 (Bat	(None,	14,	14,	864)	3456	concatenate_384[0][0]
activation_803 (Activation)	(None,	14,	14,	864)	0	batch_normalization_v1_803[0][0]
conv2d_797 (Conv2D)	(None,	14,	14,	128)	110592	activation_803[0][0]
batch_normalization_v1_804 (Bat	(None,	14,	14,	128)	512	conv2d_797[0][0]
activation_804 (Activation)	(None,	14,	14,	128)	0	batch_normalization_v1_804[0][0]
conv2d_798 (Conv2D)	(None,	14,	14,	32)	36864	activation_804[0][0]
concatenate_385 (Concatenate)	(None,	14,	14,	896)	0	concatenate_384[0][0] conv2d_798[0][0]
batch_normalization_v1_805 (Bat	(None,	14,	14,	896)	3584	concatenate_385[0][0]
activation_805 (Activation)	(None,	14,	14,	896)	0	batch_normalization_v1_805[0][0]

conv2d_799 (Conv2D)	(None,	14, 1	4, 128)	114688	activation_805[0][0]
batch_normalization_v1_806 (Bat	(None,	14, 1	.4, 128)	512	conv2d_799[0][0]
activation_806 (Activation)	(None,	14, 1	4, 128)	0	batch_normalization_v1_806[0][0]
conv2d_800 (Conv2D)	(None,	14, 1	4, 32)	36864	activation_806[0][0]
concatenate_386 (Concatenate)	(None,	14, 1	4, 928)	0	concatenate_385[0][0] conv2d_800[0][0]
batch_normalization_v1_807 (Bat	(None,	14, 1	4, 928)	3712	concatenate_386[0][0]
activation_807 (Activation)	(None,	14, 1	4, 928)	0	batch_normalization_v1_807[0][0]
conv2d_801 (Conv2D)	(None,	14, 1	.4, 128)	118784	activation_807[0][0]
batch_normalization_v1_808 (Bat	(None,	14, 1	.4, 128)	512	conv2d_801[0][0]
activation_808 (Activation)	(None,	14, 1	.4, 128)	0	batch_normalization_v1_808[0][0]
conv2d_802 (Conv2D)	(None,	14, 1	.4, 32)	36864	activation_808[0][0]
concatenate_387 (Concatenate)	(None,	14, 1	4, 960)	0	concatenate_386[0][0] conv2d_802[0][0]
batch_normalization_v1_809 (Bat	(None,	14, 1	.4, 960)	3840	concatenate_387[0][0]
activation_809 (Activation)	(None,	14, 1	4, 960)	0	batch_normalization_v1_809[0][0]
conv2d_803 (Conv2D)	(None,	14, 1	4, 128)	122880	activation_809[0][0]
batch_normalization_v1_810 (Bat	(None,	14, 1	4, 128)	512	conv2d_803[0][0]
activation_810 (Activation)	(None,	14, 1	4, 128)	0	batch_normalization_v1_810[0][0]
conv2d_804 (Conv2D)	(None,	14, 1	.4, 32)	36864	activation_810[0][0]
concatenate_388 (Concatenate)	(None,	14, 1	4, 992)	0	concatenate_387[0][0] conv2d_804[0][0]
batch_normalization_v1_811 (Bat	(None,	14, 1	.4, 992)	3968	concatenate_388[0][0]
activation_811 (Activation)	(None,	14, 1	.4, 992)	0	batch_normalization_v1_811[0][0]
conv2d_805 (Conv2D)	(None,	14, 1	.4, 128)	126976	activation_811[0][0]
batch_normalization_v1_812 (Bat	(None,	14, 1	.4, 128)	512	conv2d_805[0][0]
activation_812 (Activation)	(None,	14, 1	.4, 128)	0	batch_normalization_v1_812[0][0]
conv2d_806 (Conv2D)	(None,	14, 1	.4, 32)	36864	activation_812[0][0]
concatenate_389 (Concatenate)	(None,	14, 1	4, 1024)	0	concatenate_388[0][0] conv2d_806[0][0]
batch_normalization_v1_813 (Bat	(None,	14, 1	4, 1024)	4096	concatenate_389[0][0]
activation_813 (Activation)	(None,	14, 1	4, 1024)	0	batch_normalization_v1_813[0][0]
conv2d_807 (Conv2D)	(None,	14, 1	.4, 512)	524288	activation_813[0][0]
average_pooling2d_20 (AveragePo	(None,	7, 7,	512)	0	conv2d_807[0][0]
batch_normalization_v1_814 (Bat	(None,	7, 7,	512)	2048	average_pooling2d_20[0][0]
activation_814 (Activation)	(None,	7, 7,	512)	0	batch_normalization_v1_814[0][0]
conv2d_808 (Conv2D)	(None,	7, 7,	128)	65536	activation_814[0][0]
batch_normalization_v1_815 (Bat	(None,	7, 7,	128)	512	conv2d_808[0][0]
activation_815 (Activation)	(None,	7, 7,	128)	0	batch_normalization_v1_815[0][0]
conv2d_809 (Conv2D)	(None,	7, 7,	32)	36864	activation_815[0][0]
concatenate_390 (Concatenate)	(None,	7, 7,	544)	0	average_pooling2d_20[0][0] conv2d_809[0][0]
batch_normalization_v1_816 (Bat	(None,	7, 7,	544)	2176	concatenate_390[0][0]
activation_816 (Activation)	(None,	7, 7,	544)	0	batch_normalization_v1_816[0][0]
conv2d_810 (Conv2D)	(None,	7, 7,	128)	69632	activation_816[0][0]

batch_normalization_v1_817 (Bat	(None, 7, 7, 1	128)	512	conv2d_810[0][0]
activation_817 (Activation)	(None, 7, 7, 1	128)	0	batch_normalization_v1_817[0][0]
conv2d_811 (Conv2D)	(None, 7, 7, 3	32)	36864	activation_817[0][0]
concatenate_391 (Concatenate)	(None, 7, 7, 5	576)	0	concatenate_390[0][0] conv2d_811[0][0]
batch_normalization_v1_818 (Bat	(None, 7, 7, 5	576)	2304	concatenate_391[0][0]
activation_818 (Activation)	(None, 7, 7, 5	576)	0	batch_normalization_v1_818[0][0]
conv2d_812 (Conv2D)	(None, 7, 7, 1	128)	73728	activation_818[0][0]
batch_normalization_v1_819 (Bat	(None, 7, 7, 1	128)	512	conv2d_812[0][0]
activation_819 (Activation)	(None, 7, 7, 1	128)	0	batch_normalization_v1_819[0][0]
conv2d_813 (Conv2D)	(None, 7, 7, 3	32)	36864	activation_819[0][0]
concatenate_392 (Concatenate)	(None, 7, 7, 6	508)	0	concatenate_391[0][0] conv2d_813[0][0]
batch_normalization_v1_820 (Bat	(None, 7, 7, 6	508)	2432	concatenate_392[0][0]
activation_820 (Activation)	(None, 7, 7, 6	508)	0	batch_normalization_v1_820[0][0]
conv2d_814 (Conv2D)	(None, 7, 7, 1	128)	77824	activation_820[0][0]
batch_normalization_v1_821 (Bat	(None, 7, 7, 1	128)	512	conv2d_814[0][0]
activation_821 (Activation)	(None, 7, 7, 1	128)	0	batch_normalization_v1_821[0][0]
conv2d_815 (Conv2D)	(None, 7, 7, 3	32)	36864	activation_821[0][0]
concatenate_393 (Concatenate)	(None, 7, 7, 6	540)	0	concatenate_392[0][0] conv2d_815[0][0]
batch_normalization_v1_822 (Bat	(None, 7, 7, 6	540)	2560	concatenate_393[0][0]
activation_822 (Activation)	(None, 7, 7, 6	540)	0	batch_normalization_v1_822[0][0]
conv2d_816 (Conv2D)	(None, 7, 7, 1	128)	81920	activation_822[0][0]
batch_normalization_v1_823 (Bat	(None, 7, 7, 1	128)	512	conv2d_816[0][0]
activation_823 (Activation)	(None, 7, 7, 1	128)	0	batch_normalization_v1_823[0][0]
conv2d_817 (Conv2D)	(None, 7, 7, 3	32)	36864	activation_823[0][0]
concatenate_394 (Concatenate)	(None, 7, 7, 6	572)	0	concatenate_393[0][0] conv2d_817[0][0]
batch_normalization_v1_824 (Bat	(None, 7, 7, 6	572)	2688	concatenate_394[0][0]
activation_824 (Activation)	(None, 7, 7, 6	572)	0	batch_normalization_v1_824[0][0]
conv2d_818 (Conv2D)	(None, 7, 7, 1	128)	86016	activation_824[0][0]
batch_normalization_v1_825 (Bat	(None, 7, 7, 1	128)	512	conv2d_818[0][0]
activation_825 (Activation)	(None, 7, 7, 1	128)	0	batch_normalization_v1_825[0][0]
conv2d_819 (Conv2D)	(None, 7, 7, 3	32)	36864	activation_825[0][0]
concatenate_395 (Concatenate)	(None, 7, 7, 7	704)	0	concatenate_394[0][0] conv2d_819[0][0]
batch_normalization_v1_826 (Bat	(None, 7, 7, 7	704)	2816	concatenate_395[0][0]
activation_826 (Activation)	(None, 7, 7, 7	704)	0	batch_normalization_v1_826[0][0]
conv2d_820 (Conv2D)	(None, 7, 7, 1	128)	90112	activation_826[0][0]
batch_normalization_v1_827 (Bat	(None, 7, 7, 1	128)	512	conv2d_820[0][0]
activation_827 (Activation)	(None, 7, 7, 1	128)	0	batch_normalization_v1_827[0][0]
conv2d_821 (Conv2D)	(None, 7, 7, 3	32)	36864	activation_827[0][0]
concatenate_396 (Concatenate)	(None, 7, 7, 7	736)	0	concatenate_395[0][0] conv2d_821[0][0]
batch normalization v1 828 (Bat	(None, 7, 7, 7	736)	2944	concatenate_396[0][0]

activation 828 (Activation)	(None, 7	, 7	,	736)	0	batch_normalization_v1_828[0][0]
conv2d_822 (Conv2D)	(None, 7				94208	activation_828[0][0]
batch_normalization_v1_829 (Bat	(None, 7	, 7	,	128)	512	conv2d_822[0][0]
activation_829 (Activation)	(None, 7	, 7	,	128)	0	batch_normalization_v1_829[0][0]
conv2d_823 (Conv2D)	(None, 7	, 7	,	32)	36864	activation_829[0][0]
concatenate_397 (Concatenate)	(None, 7	, 7	,	768)	0	concatenate_396[0][0] conv2d_823[0][0]
batch_normalization_v1_830 (Bat	(None, 7	, 7	,	768)	3072	concatenate_397[0][0]
activation_830 (Activation)	(None, 7	, 7	,	768)	0	batch_normalization_v1_830[0][0]
conv2d_824 (Conv2D)	(None, 7	, 7	,	128)	98304	activation_830[0][0]
batch_normalization_v1_831 (Bat	(None, 7	, 7	,	128)	512	conv2d_824[0][0]
activation_831 (Activation)	(None, 7	, 7	,	128)	0	batch_normalization_v1_831[0][0]
conv2d_825 (Conv2D)	(None, 7	, 7	,	32)	36864	activation_831[0][0]
concatenate_398 (Concatenate)	(None, 7	, 7	,	800)	0	concatenate_397[0][0] conv2d_825[0][0]
batch_normalization_v1_832 (Bat	(None, 7	, 7	,	800)	3200	concatenate_398[0][0]
activation_832 (Activation)	(None, 7	, 7	,	800)	0	batch_normalization_v1_832[0][0]
conv2d_826 (Conv2D)	(None, 7	, 7	,	128)	102400	activation_832[0][0]
batch_normalization_v1_833 (Bat	(None, 7	, 7	,	128)	512	conv2d_826[0][0]
activation_833 (Activation)	(None, 7	, 7	,	128)	0	batch_normalization_v1_833[0][0]
conv2d_827 (Conv2D)	(None, 7	, 7	,	32)	36864	activation_833[0][0]
concatenate_399 (Concatenate)	(None, 7	, 7	,	832)	0	concatenate_398[0][0] conv2d_827[0][0]
batch_normalization_v1_834 (Bat	(None, 7	, 7	,	832)	3328	concatenate_399[0][0]
activation_834 (Activation)	(None, 7	, 7	,	832)	0	batch_normalization_v1_834[0][0]
conv2d_828 (Conv2D)	(None, 7	, 7	,	128)	106496	activation_834[0][0]
batch_normalization_v1_835 (Bat	(None, 7	, 7	,	128)	512	conv2d_828[0][0]
activation_835 (Activation)	(None, 7	, 7	,	128)	0	batch_normalization_v1_835[0][0]
conv2d_829 (Conv2D)	(None, 7	, 7	,	32)	36864	activation_835[0][0]
concatenate_400 (Concatenate)	(None, 7	, 7	,	864)	0	concatenate_399[0][0] conv2d_829[0][0]
batch_normalization_v1_836 (Bat	(None, 7	, 7	,	864)	3456	concatenate_400[0][0]
activation_836 (Activation)	(None, 7	, 7	,	864)	0	batch_normalization_v1_836[0][0]
conv2d_830 (Conv2D)	(None, 7	, 7	,	128)	110592	activation_836[0][0]
batch_normalization_v1_837 (Bat	(None, 7	, 7	,	128)	512	conv2d_830[0][0]
activation_837 (Activation)	(None, 7	, 7	,	128)	0	batch_normalization_v1_837[0][0]
conv2d_831 (Conv2D)	(None, 7	, 7	,	32)	36864	activation_837[0][0]
concatenate_401 (Concatenate)	(None, 7	, 7	,	896)	0	concatenate_400[0][0] conv2d_831[0][0]
batch_normalization_v1_838 (Bat	(None, 7	, 7	,	896)	3584	concatenate_401[0][0]
activation_838 (Activation)	(None, 7	, 7	,	896)	0	batch_normalization_v1_838[0][0]
conv2d_832 (Conv2D)	(None, 7	, 7	,	128)	114688	activation_838[0][0]
batch_normalization_v1_839 (Bat	(None, 7	, 7	,	128)	512	conv2d_832[0][0]
activation_839 (Activation)	(None, 7	, 7	,	128)	0	batch_normalization_v1_839[0][0]
conv2d_833 (Conv2D)	(None, 7	, 7	,	32)	36864	activation_839[0][0]
concatenate_402 (Concatenate)	(None, 7	, 7	,	928)	0	concatenate_401[0][0]

concatenate\_402[0][0]

batch\_normalization\_v1\_840 (Bat (None, 7, 7, 928) 3712

activation_840 (Activation)	(None, 7, 7, 928)	0	batch_normalization_v1_840[0][0]					
conv2d_834 (Conv2D)	(None, 7, 7, 128)	118784	activation_840[0][0]					
batch_normalization_v1_841 (Bat	(None, 7, 7, 128)	512	conv2d_834[0][0]					
activation_841 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_841[0][0]					
conv2d_835 (Conv2D)	(None, 7, 7, 32)	36864	activation_841[0][0]					
concatenate_403 (Concatenate)	(None, 7, 7, 960)	0	concatenate_402[0][0] conv2d_835[0][0]					
batch_normalization_v1_842 (Bat	(None, 7, 7, 960)	3840	concatenate_403[0][0]					
activation_842 (Activation)	(None, 7, 7, 960)	0	batch_normalization_v1_842[0][0]					
conv2d_836 (Conv2D)	(None, 7, 7, 128)	122880	activation_842[0][0]					
batch_normalization_v1_843 (Bat	(None, 7, 7, 128)	512	conv2d_836[0][0]					
activation_843 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_843[0][0]					
conv2d_837 (Conv2D)	(None, 7, 7, 32)	36864	activation_843[0][0]					
concatenate_404 (Concatenate)	(None, 7, 7, 992)	0	concatenate_403[0][0] conv2d_837[0][0]					
batch_normalization_v1_844 (Bat	(None, 7, 7, 992)	3968	concatenate_404[0][0]					
activation_844 (Activation)	(None, 7, 7, 992)	0	batch_normalization_v1_844[0][0]					
conv2d_838 (Conv2D)	(None, 7, 7, 128)	126976	activation_844[0][0]					
batch_normalization_v1_845 (Bat	(None, 7, 7, 128)	512	conv2d_838[0][0]					
activation_845 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_845[0][0]					
conv2d_839 (Conv2D)	(None, 7, 7, 32)	36864	activation_845[0][0]					
concatenate_405 (Concatenate)	(None, 7, 7, 1024)	0	concatenate_404[0][0] conv2d_839[0][0]					
batch_normalization_v1_846 (Bat	(None, 7, 7, 1024)	4096	concatenate_405[0][0]					
activation_846 (Activation)	(None, 7, 7, 1024)	0	batch_normalization_v1_846[0][0]					
global_avg_pooling (GlobalAvera	(None, 1024)	0	activation_846[0][0]					
dense_6 (Dense)	(None, 5)	5125	global_avg_pooling[0][0]					
Total params: 7,042,629 Trainable params: 6,958,981 Non-trainable params: 83,648								
Using Enhanced Data Generation Found 24216 images belonging to 5 classes. Found 6063 images belonging to 5 classes. JSON Mapping for the model classes saved to /content/drive/My Drive/images/json/model_class.json Number of experiments (Epochs): 50 Epoch 1/50 190/190 [====================================								
Epoch 00001: saving model to /content/drive/My Drive/images/models/model_ex-001_acc-0.262906.h5 757/757 [============] - 11677s 15s/step - loss: 2.4622 - acc: 0.3153 - val_loss: 3.0507 - val_acc: 0.2629 Epoch 2/50 190/190 [==========] - 53s 277ms/step - loss: 1.7398 - acc: 0.2708								
Epoch 00002: saving model to /content/drive/My Drive/images/models/model_ex-002_acc-0.270823.h5 757/757 [==========] - 754s 995ms/step - loss: 1.5735 - acc: 0.4360 - val_loss: 1.7398 - val_acc: 0.2708 Epoch 3/50 190/190 [===========] - 52s 275ms/step - loss: 1.3116 - acc: 0.5101								
Epoch 00003: saving model to /content/drive/My Drive/images/models/model_ex-003_acc-0.510144.h5 757/757 [===========] - 754s 996ms/step - loss: 1.2863 - acc: 0.5405 - val_loss: 1.3116 - val_acc: 0.5101 Epoch 4/50 190/190 [===========] - 53s 277ms/step - loss: 1.4590 - acc: 0.4800								
	=====] - 754s 996n	ms/step - lo	els/model_ex-004_acc-0.479960.h5 ss: 1.1608 - acc: 0.5872 - val_loss: s: 1.1376 - acc: 0.5990	1.4590 - val_acc: 0.4800				

```
Epoch 00005: saving model to /content/drive/My Drive/images/models/model ex-005 acc-0.599043.h5
757/757 [============== ] - 756s 999ms/step - loss: 1.0775 - acc: 0.6219 - val loss: 1.1376 - val acc: 0.5990
Epoch 6/50
190/190 [============] - 53s 281ms/step - loss: 1.1574 - acc: 0.5962
Epoch 00006: saving model to /content/drive/My Drive/images/models/model_ex-006_acc-0.596240.h5
757/757 [============== ] - 758s ls/step - loss: 1.0282 - acc: 0.6400 - val_loss: 1.1574 - val_acc: 0.5962
Epoch 7/50
190/190 [============ ] - 53s 278ms/step - loss: 1.1919 - acc: 0.5766
Epoch 00007: saving model to /content/drive/My Drive/images/models/model_ex-007_acc-0.576612.h5
757/757 [============] - 757s 1000ms/step - loss: 0.9828 - acc: 0.6620 - val_loss: 1.1919 - val_acc: 0.5766
Epoch 8/50
190/190 [============ ] - 53s 280ms/step - loss: 1.0872 - acc: 0.6122
Epoch 00008: saving model to /content/drive/My Drive/images/models/model_ex-008_acc-0.612238.h5
757/757 [============== ] - 758s 1s/step - loss: 0.9473 - acc: 0.6751 - val_loss: 1.0872 - val_acc: 0.6122
Epoch 9/50
190/190 [============== ] - 53s 277ms/step - loss: 1.0204 - acc: 0.6454
Epoch 00009: saving model to /content/drive/My Drive/images/models/model_ex-009_acc-0.645390.h5
757/757 [============== ] - 757s 1s/step - loss: 0.9218 - acc: 0.6816 - val_loss: 1.0204 - val_acc: 0.6454
Epoch 10/50
Epoch 00010: saving model to /content/drive/My Drive/images/models/model_ex-010_acc-0.659904.h5
Epoch 11/50
190/190 [===========] - 52s 276ms/step - loss: 0.9704 - acc: 0.6592
Epoch 00011: saving model to /content/drive/My Drive/images/models/model ex-011 acc-0.659245.h5
Epoch 12/50
190/190 [========== ] - 52s 276ms/step - loss: 0.9270 - acc: 0.6837
Epoch 00012: saving model to /content/drive/My Drive/images/models/model ex-012 acc-0.683655.h5
Epoch 13/50
190/190 [========= ] - 52s 276ms/step - loss: 0.8683 - acc: 0.7006
Epoch 00013: saving model to /content/drive/My Drive/images/models/model ex-013 acc-0.700643.h5
757/757 [============== ] - 754s 996ms/step - loss: 0.8350 - acc: 0.7159 - val loss: 0.8683 - val acc: 0.7006
Epoch 14/50
190/190 [============] - 53s 280ms/step - loss: 0.8796 - acc: 0.6949
Epoch 00014: saving model to /content/drive/My Drive/images/models/model ex-014 acc-0.694871.h5
757/757 [============] - 757s 1000ms/step - loss: 0.8157 - acc: 0.7203 - val loss: 0.8796 - val acc: 0.6949
Epoch 15/50
190/190 [============] - 53s 279ms/step - loss: 1.1213 - acc: 0.6399
Epoch 00015: saving model to /content/drive/My Drive/images/models/model ex-015 acc-0.639947.h5
Epoch 16/50
190/190 [=========== ] - 53s 280ms/step - loss: 0.8897 - acc: 0.6870
Epoch 00016: saving model to /content/drive/My Drive/images/models/model ex-016 acc-0.686954.h5
Epoch 17/50
190/190 [=========== ] - 53s 278ms/step - loss: 0.9138 - acc: 0.6794
Epoch 00017: saving model to /content/drive/My Drive/images/models/model ex-017 acc-0.679367.h5
757/757 [============================= ] - 757s 999ms/step - loss: 0.7672 - acc: 0.7450 - val_loss: 0.9138 - val_acc: 0.6794
Epoch 18/50
190/190 [============= ] - 53s 277ms/step - loss: 0.8601 - acc: 0.7058
Epoch 00018: saving model to /content/drive/My Drive/images/models/model_ex-018_acc-0.705756.h5
757/757 [============== ] - 756s 999ms/step - loss: 0.7558 - acc: 0.7483 - val_loss: 0.8601 - val_acc: 0.7058
Epoch 19/50
Epoch 00019: saving model to /content/drive/My Drive/images/models/model ex-019 acc-0.683985.h5
757/757 [============= ] - 753s 994ms/step - loss: 0.7382 - acc: 0.7561 - val_loss: 0.9903 - val_acc: 0.6840
Epoch 20/50
 \texttt{Epoch 00020: saving model to /content/drive/My Drive/images/models/model\_ex-020\_acc-0.724394.h5 } \\
757/757 [=============== ] - 759s 1s/step - loss: 0.7223 - acc: 0.7635 - val_loss: 0.8162 - val_acc: 0.7244
Epoch 21/50
190/190 [===========] - 53s 277ms/step - loss: 0.8098 - acc: 0.7297
Epoch 00021: saving model to /content/drive/My Drive/images/models/model_ex-021_acc-0.729672.h5
757/757 [============] - 757s 1000ms/step - loss: 0.7110 - acc: 0.7645 - val_loss: 0.8098 - val_acc: 0.7297
Epoch 22/50
```

190/190 [===========] - 53s 280ms/step - loss: 0.7635 - acc: 0.7458

```
Epoch 00022: saving model to /content/drive/My Drive/images/models/model_ex-022_acc-0.745835.h5
757/757 [============= ] - 758s 1s/step - loss: 0.6347 - acc: 0.7963 - val loss: 0.7635 - val acc: 0.7458
Epoch 23/50
190/190 [============= ] - 53s 279ms/step - loss: 0.7662 - acc: 0.7518
Epoch 00023: saving model to /content/drive/My Drive/images/models/model_ex-023_acc-0.751773.h5
Epoch 24/50
190/190 [============ ] - 53s 280ms/step - loss: 0.7676 - acc: 0.7483
Epoch 00024: saving model to /content/drive/My Drive/images/models/model_ex-024_acc-0.748309.h5
757/757 [==============] - 757s 1000ms/step - loss: 0.5854 - acc: 0.8153 - val_loss: 0.7676 - val_acc: 0.7483
Epoch 25/50
Epoch 00025: saving model to /content/drive/My Drive/images/models/model_ex-025_acc-0.750289.h5
Epoch 26/50
190/190 [============== - 53s 280ms/step - loss: 0.7844 - acc: 0.7505
Epoch 00026: saving model to /content/drive/My Drive/images/models/model_ex-026_acc-0.750454.h5
757/757 [===========] - 757s 1000ms/step - loss: 0.5649 - acc: 0.8229 - val_loss: 0.7844 - val_acc: 0.7505
Epoch 27/50
Epoch 00027: saving model to /content/drive/My Drive/images/models/model_ex-027_acc-0.749299.h5
Epoch 28/50
190/190 [============================= - 53s 279ms/step - loss: 0.7781 - acc: 0.7485
Epoch 00028: saving model to /content/drive/My Drive/images/models/model_ex-028_acc-0.748474.h5
Epoch 29/50
Epoch 00029: saving model to /content/drive/My Drive/images/models/model_ex-029_acc-0.749959.h5
Epoch 30/50
Epoch 00030: saving model to /content/drive/My Drive/images/models/model_ex-030_acc-0.747485.h5
757/757 [============== ] - 756s 999ms/step - loss: 0.5254 - acc: 0.8363 - val loss: 0.7863 - val acc: 0.7475
Epoch 31/50
190/190 [===========] - 53s 279ms/step - loss: 0.7895 - acc: 0.7486
Epoch 00031: saving model to /content/drive/My Drive/images/models/model_ex-031_acc-0.748639.h5
757/757 [============== ] - 756s 998ms/step - loss: 0.5251 - acc: 0.8385 - val loss: 0.7895 - val acc: 0.7486
Epoch 32/50
190/190 [============] - 53s 280ms/step - loss: 0.7847 - acc: 0.7511
Epoch 00032: saving model to /content/drive/My Drive/images/models/model_ex-032_acc-0.751113.h5
757/757 [===========] - 757s 1000ms/step - loss: 0.5094 - acc: 0.8424 - val loss: 0.7847 - val acc: 0.7511
Epoch 33/50
190/190 [===========] - 53s 279ms/step - loss: 0.7857 - acc: 0.7506
Epoch 00033: saving model to /content/drive/My Drive/images/models/model_ex-033_acc-0.750619.h5
757/757 [============== ] - 757s 1s/step - loss: 0.5050 - acc: 0.8418 - val loss: 0.7857 - val acc: 0.7506
Epoch 34/50
190/190 [============] - 53s 281ms/step - loss: 0.7876 - acc: 0.7501
Epoch 00034: saving model to /content/drive/My Drive/images/models/model_ex-034_acc-0.750124.h5
757/757 [============ ] - 758s 1s/step - loss: 0.5030 - acc: 0.8453 - val loss: 0.7876 - val acc: 0.7501
Epoch 35/50
190/190 [===========] - 53s 277ms/step - loss: 0.7856 - acc: 0.7506
Epoch 00035: saving model to /content/drive/My Drive/images/models/model ex-035 acc-0.750619.h5
Epoch 36/50
190/190 [===========] - 53s 279ms/step - loss: 0.7863 - acc: 0.7518
Epoch 00036: saving model to /content/drive/My Drive/images/models/model ex-036 acc-0.751773.h5
Epoch 37/50
```