

Layer (type)	Output Shape	Param #	Connected to
input_4 (InputLayer)	(None, 224, 224, 3)	0	
conv2d_360 (Conv2D)	(None, 112, 112, 64)	9408	input_4[0][0]
batch_normalization_v1_363 (Batch Normalization)	(None, 112, 112, 64)	256	conv2d_360[0][0]
activation_363 (Activation)	(None, 112, 112, 64)	0	batch_normalization_v1_363[0][0]
max_pooling2d_3 (MaxPooling2D)	(None, 56, 56, 64)	0	activation_363[0][0]
batch_normalization_v1_364 (Batch Normalization)	(None, 56, 56, 64)	256	max_pooling2d_3[0][0]
activation_364 (Activation)	(None, 56, 56, 64)	0	batch_normalization_v1_364[0][0]
conv2d_361 (Conv2D)	(None, 56, 56, 128)	8192	activation_364[0][0]
batch_normalization_v1_365 (Batch Normalization)	(None, 56, 56, 128)	512	conv2d_361[0][0]
activation_365 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_365[0][0]
conv2d_362 (Conv2D)	(None, 56, 56, 32)	36864	activation_365[0][0]
concatenate_174 (Concatenate)	(None, 56, 56, 96)	0	max_pooling2d_3[0][0] conv2d_362[0][0]
batch_normalization_v1_366 (Batch Normalization)	(None, 56, 56, 96)	384	concatenate_174[0][0]
activation_366 (Activation)	(None, 56, 56, 96)	0	batch_normalization_v1_366[0][0]
conv2d_363 (Conv2D)	(None, 56, 56, 128)	12288	activation_366[0][0]
batch_normalization_v1_367 (Batch Normalization)	(None, 56, 56, 128)	512	conv2d_363[0][0]
activation_367 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_367[0][0]
conv2d_364 (Conv2D)	(None, 56, 56, 32)	36864	activation_367[0][0]
concatenate_175 (Concatenate)	(None, 56, 56, 128)	0	concatenate_174[0][0] conv2d_364[0][0]
batch_normalization_v1_368 (Batch Normalization)	(None, 56, 56, 128)	512	concatenate_175[0][0]
activation_368 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_368[0][0]
conv2d_365 (Conv2D)	(None, 56, 56, 128)	16384	activation_368[0][0]
batch_normalization_v1_369 (Batch Normalization)	(None, 56, 56, 128)	512	conv2d_365[0][0]
activation_369 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_369[0][0]
conv2d_366 (Conv2D)	(None, 56, 56, 32)	36864	activation_369[0][0]
concatenate_176 (Concatenate)	(None, 56, 56, 160)	0	concatenate_175[0][0] conv2d_366[0][0]
batch_normalization_v1_370 (Batch Normalization)	(None, 56, 56, 160)	640	concatenate_176[0][0]
activation_370 (Activation)	(None, 56, 56, 160)	0	batch_normalization_v1_370[0][0]
conv2d_367 (Conv2D)	(None, 56, 56, 128)	20480	activation_370[0][0]
batch_normalization_v1_371 (Batch Normalization)	(None, 56, 56, 128)	512	conv2d_367[0][0]
activation_371 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_371[0][0]
conv2d_368 (Conv2D)	(None, 56, 56, 32)	36864	activation_371[0][0]
concatenate_177 (Concatenate)	(None, 56, 56, 192)	0	concatenate_176[0][0] conv2d_368[0][0]
batch_normalization_v1_372 (Batch Normalization)	(None, 56, 56, 192)	768	concatenate_177[0][0]
activation_372 (Activation)	(None, 56, 56, 192)	0	batch_normalization_v1_372[0][0]
conv2d_369 (Conv2D)	(None, 56, 56, 128)	24576	activation_372[0][0]
batch_normalization_v1_373 (Batch Normalization)	(None, 56, 56, 128)	512	conv2d_369[0][0]
activation_373 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_373[0][0]
conv2d_370 (Conv2D)	(None, 56, 56, 32)	36864	activation_373[0][0]

concatenate_178 (Concatenate)	(None, 56, 56, 224)	0	concatenate_177[0][0] conv2d_370[0][0]
batch_normalization_v1_374 (Batch Normalization)	(None, 56, 56, 224)	896	concatenate_178[0][0]
activation_374 (Activation)	(None, 56, 56, 224)	0	batch_normalization_v1_374[0][0]
conv2d_371 (Conv2D)	(None, 56, 56, 128)	28672	activation_374[0][0]
batch_normalization_v1_375 (Batch Normalization)	(None, 56, 56, 128)	512	conv2d_371[0][0]
activation_375 (Activation)	(None, 56, 56, 128)	0	batch_normalization_v1_375[0][0]
conv2d_372 (Conv2D)	(None, 56, 56, 32)	36864	activation_375[0][0]
concatenate_179 (Concatenate)	(None, 56, 56, 256)	0	concatenate_178[0][0] conv2d_372[0][0]
batch_normalization_v1_376 (Batch Normalization)	(None, 56, 56, 256)	1024	concatenate_179[0][0]
activation_376 (Activation)	(None, 56, 56, 256)	0	batch_normalization_v1_376[0][0]
conv2d_373 (Conv2D)	(None, 56, 56, 128)	32768	activation_376[0][0]
average_pooling2d_9 (Average Pooling)	(None, 28, 28, 128)	0	conv2d_373[0][0]
batch_normalization_v1_377 (Batch Normalization)	(None, 28, 28, 128)	512	average_pooling2d_9[0][0]
activation_377 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_377[0][0]
conv2d_374 (Conv2D)	(None, 28, 28, 128)	16384	activation_377[0][0]
batch_normalization_v1_378 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_374[0][0]
activation_378 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_378[0][0]
conv2d_375 (Conv2D)	(None, 28, 28, 32)	36864	activation_378[0][0]
concatenate_180 (Concatenate)	(None, 28, 28, 160)	0	average_pooling2d_9[0][0] conv2d_375[0][0]
batch_normalization_v1_379 (Batch Normalization)	(None, 28, 28, 160)	640	concatenate_180[0][0]
activation_379 (Activation)	(None, 28, 28, 160)	0	batch_normalization_v1_379[0][0]
conv2d_376 (Conv2D)	(None, 28, 28, 128)	20480	activation_379[0][0]
batch_normalization_v1_380 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_376[0][0]
activation_380 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_380[0][0]
conv2d_377 (Conv2D)	(None, 28, 28, 32)	36864	activation_380[0][0]
concatenate_181 (Concatenate)	(None, 28, 28, 192)	0	concatenate_180[0][0] conv2d_377[0][0]
batch_normalization_v1_381 (Batch Normalization)	(None, 28, 28, 192)	768	concatenate_181[0][0]
activation_381 (Activation)	(None, 28, 28, 192)	0	batch_normalization_v1_381[0][0]
conv2d_378 (Conv2D)	(None, 28, 28, 128)	24576	activation_381[0][0]
batch_normalization_v1_382 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_378[0][0]
activation_382 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_382[0][0]
conv2d_379 (Conv2D)	(None, 28, 28, 32)	36864	activation_382[0][0]
concatenate_182 (Concatenate)	(None, 28, 28, 224)	0	concatenate_181[0][0] conv2d_379[0][0]
batch_normalization_v1_383 (Batch Normalization)	(None, 28, 28, 224)	896	concatenate_182[0][0]
activation_383 (Activation)	(None, 28, 28, 224)	0	batch_normalization_v1_383[0][0]
conv2d_380 (Conv2D)	(None, 28, 28, 128)	28672	activation_383[0][0]
batch_normalization_v1_384 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_380[0][0]
activation_384 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_384[0][0]
conv2d_381 (Conv2D)	(None, 28, 28, 32)	36864	activation_384[0][0]
concatenate_183 (Concatenate)	(None, 28, 28, 256)	0	concatenate_182[0][0] conv2d_381[0][0]

batch_normalization_v1_385 (Batch Normalization)	(None, 28, 28, 256)	1024	concatenate_183[0][0]
activation_385 (Activation)	(None, 28, 28, 256)	0	batch_normalization_v1_385[0][0]
conv2d_382 (Conv2D)	(None, 28, 28, 128)	32768	activation_385[0][0]
batch_normalization_v1_386 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_382[0][0]
activation_386 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_386[0][0]
conv2d_383 (Conv2D)	(None, 28, 28, 32)	36864	activation_386[0][0]
concatenate_184 (Concatenate)	(None, 28, 28, 288)	0	concatenate_183[0][0] conv2d_383[0][0]
batch_normalization_v1_387 (Batch Normalization)	(None, 28, 28, 288)	1152	concatenate_184[0][0]
activation_387 (Activation)	(None, 28, 28, 288)	0	batch_normalization_v1_387[0][0]
conv2d_384 (Conv2D)	(None, 28, 28, 128)	36864	activation_387[0][0]
batch_normalization_v1_388 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_384[0][0]
activation_388 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_388[0][0]
conv2d_385 (Conv2D)	(None, 28, 28, 32)	36864	activation_388[0][0]
concatenate_185 (Concatenate)	(None, 28, 28, 320)	0	concatenate_184[0][0] conv2d_385[0][0]
batch_normalization_v1_389 (Batch Normalization)	(None, 28, 28, 320)	1280	concatenate_185[0][0]
activation_389 (Activation)	(None, 28, 28, 320)	0	batch_normalization_v1_389[0][0]
conv2d_386 (Conv2D)	(None, 28, 28, 128)	40960	activation_389[0][0]
batch_normalization_v1_390 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_386[0][0]
activation_390 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_390[0][0]
conv2d_387 (Conv2D)	(None, 28, 28, 32)	36864	activation_390[0][0]
concatenate_186 (Concatenate)	(None, 28, 28, 352)	0	concatenate_185[0][0] conv2d_387[0][0]
batch_normalization_v1_391 (Batch Normalization)	(None, 28, 28, 352)	1408	concatenate_186[0][0]
activation_391 (Activation)	(None, 28, 28, 352)	0	batch_normalization_v1_391[0][0]
conv2d_388 (Conv2D)	(None, 28, 28, 128)	45056	activation_391[0][0]
batch_normalization_v1_392 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_388[0][0]
activation_392 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_392[0][0]
conv2d_389 (Conv2D)	(None, 28, 28, 32)	36864	activation_392[0][0]
concatenate_187 (Concatenate)	(None, 28, 28, 384)	0	concatenate_186[0][0] conv2d_389[0][0]
batch_normalization_v1_393 (Batch Normalization)	(None, 28, 28, 384)	1536	concatenate_187[0][0]
activation_393 (Activation)	(None, 28, 28, 384)	0	batch_normalization_v1_393[0][0]
conv2d_390 (Conv2D)	(None, 28, 28, 128)	49152	activation_393[0][0]
batch_normalization_v1_394 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_390[0][0]
activation_394 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_394[0][0]
conv2d_391 (Conv2D)	(None, 28, 28, 32)	36864	activation_394[0][0]
concatenate_188 (Concatenate)	(None, 28, 28, 416)	0	concatenate_187[0][0] conv2d_391[0][0]
batch_normalization_v1_395 (Batch Normalization)	(None, 28, 28, 416)	1664	concatenate_188[0][0]
activation_395 (Activation)	(None, 28, 28, 416)	0	batch_normalization_v1_395[0][0]
conv2d_392 (Conv2D)	(None, 28, 28, 128)	53248	activation_395[0][0]
batch_normalization_v1_396 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_392[0][0]
activation_396 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_396[0][0]
conv2d_393 (Conv2D)	(None, 28, 28, 32)	36864	activation_396[0][0]

concatenate_189 (Concatenate)	(None, 28, 28, 448)	0	concatenate_188[0][0] conv2d_393[0][0]
batch_normalization_v1_397 (Batch Normalization)	(None, 28, 28, 448)	1792	concatenate_189[0][0]
activation_397 (Activation)	(None, 28, 28, 448)	0	batch_normalization_v1_397[0][0]
conv2d_394 (Conv2D)	(None, 28, 28, 128)	57344	activation_397[0][0]
batch_normalization_v1_398 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_394[0][0]
activation_398 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_398[0][0]
conv2d_395 (Conv2D)	(None, 28, 28, 32)	36864	activation_398[0][0]
concatenate_190 (Concatenate)	(None, 28, 28, 480)	0	concatenate_189[0][0] conv2d_395[0][0]
batch_normalization_v1_399 (Batch Normalization)	(None, 28, 28, 480)	1920	concatenate_190[0][0]
activation_399 (Activation)	(None, 28, 28, 480)	0	batch_normalization_v1_399[0][0]
conv2d_396 (Conv2D)	(None, 28, 28, 128)	61440	activation_399[0][0]
batch_normalization_v1_400 (Batch Normalization)	(None, 28, 28, 128)	512	conv2d_396[0][0]
activation_400 (Activation)	(None, 28, 28, 128)	0	batch_normalization_v1_400[0][0]
conv2d_397 (Conv2D)	(None, 28, 28, 32)	36864	activation_400[0][0]
concatenate_191 (Concatenate)	(None, 28, 28, 512)	0	concatenate_190[0][0] conv2d_397[0][0]
batch_normalization_v1_401 (Batch Normalization)	(None, 28, 28, 512)	2048	concatenate_191[0][0]
activation_401 (Activation)	(None, 28, 28, 512)	0	batch_normalization_v1_401[0][0]
conv2d_398 (Conv2D)	(None, 28, 28, 256)	131072	activation_401[0][0]
average_pooling2d_10 (Average Pooling)	(None, 14, 14, 256)	0	conv2d_398[0][0]
batch_normalization_v1_402 (Batch Normalization)	(None, 14, 14, 256)	1024	average_pooling2d_10[0][0]
activation_402 (Activation)	(None, 14, 14, 256)	0	batch_normalization_v1_402[0][0]
conv2d_399 (Conv2D)	(None, 14, 14, 128)	32768	activation_402[0][0]
batch_normalization_v1_403 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_399[0][0]
activation_403 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_403[0][0]
conv2d_400 (Conv2D)	(None, 14, 14, 32)	36864	activation_403[0][0]
concatenate_192 (Concatenate)	(None, 14, 14, 288)	0	average_pooling2d_10[0][0] conv2d_400[0][0]
batch_normalization_v1_404 (Batch Normalization)	(None, 14, 14, 288)	1152	concatenate_192[0][0]
activation_404 (Activation)	(None, 14, 14, 288)	0	batch_normalization_v1_404[0][0]
conv2d_401 (Conv2D)	(None, 14, 14, 128)	36864	activation_404[0][0]
batch_normalization_v1_405 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_401[0][0]
activation_405 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_405[0][0]
conv2d_402 (Conv2D)	(None, 14, 14, 32)	36864	activation_405[0][0]
concatenate_193 (Concatenate)	(None, 14, 14, 320)	0	concatenate_192[0][0] conv2d_402[0][0]
batch_normalization_v1_406 (Batch Normalization)	(None, 14, 14, 320)	1280	concatenate_193[0][0]
activation_406 (Activation)	(None, 14, 14, 320)	0	batch_normalization_v1_406[0][0]
conv2d_403 (Conv2D)	(None, 14, 14, 128)	40960	activation_406[0][0]
batch_normalization_v1_407 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_403[0][0]
activation_407 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_407[0][0]
conv2d_404 (Conv2D)	(None, 14, 14, 32)	36864	activation_407[0][0]
concatenate_194 (Concatenate)	(None, 14, 14, 352)	0	concatenate_193[0][0] conv2d_404[0][0]

batch_normalization_v1_408 (Batch Normalization)	(None, 14, 14, 352)	1408	concatenate_194[0][0]
activation_408 (Activation)	(None, 14, 14, 352)	0	batch_normalization_v1_408[0][0]
conv2d_405 (Conv2D)	(None, 14, 14, 128)	45056	activation_408[0][0]
batch_normalization_v1_409 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_405[0][0]
activation_409 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_409[0][0]
conv2d_406 (Conv2D)	(None, 14, 14, 32)	36864	activation_409[0][0]
concatenate_195 (Concatenate)	(None, 14, 14, 384)	0	concatenate_194[0][0] conv2d_406[0][0]
batch_normalization_v1_410 (Batch Normalization)	(None, 14, 14, 384)	1536	concatenate_195[0][0]
activation_410 (Activation)	(None, 14, 14, 384)	0	batch_normalization_v1_410[0][0]
conv2d_407 (Conv2D)	(None, 14, 14, 128)	49152	activation_410[0][0]
batch_normalization_v1_411 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_407[0][0]
activation_411 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_411[0][0]
conv2d_408 (Conv2D)	(None, 14, 14, 32)	36864	activation_411[0][0]
concatenate_196 (Concatenate)	(None, 14, 14, 416)	0	concatenate_195[0][0] conv2d_408[0][0]
batch_normalization_v1_412 (Batch Normalization)	(None, 14, 14, 416)	1664	concatenate_196[0][0]
activation_412 (Activation)	(None, 14, 14, 416)	0	batch_normalization_v1_412[0][0]
conv2d_409 (Conv2D)	(None, 14, 14, 128)	53248	activation_412[0][0]
batch_normalization_v1_413 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_409[0][0]
activation_413 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_413[0][0]
conv2d_410 (Conv2D)	(None, 14, 14, 32)	36864	activation_413[0][0]
concatenate_197 (Concatenate)	(None, 14, 14, 448)	0	concatenate_196[0][0] conv2d_410[0][0]
batch_normalization_v1_414 (Batch Normalization)	(None, 14, 14, 448)	1792	concatenate_197[0][0]
activation_414 (Activation)	(None, 14, 14, 448)	0	batch_normalization_v1_414[0][0]
conv2d_411 (Conv2D)	(None, 14, 14, 128)	57344	activation_414[0][0]
batch_normalization_v1_415 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_411[0][0]
activation_415 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_415[0][0]
conv2d_412 (Conv2D)	(None, 14, 14, 32)	36864	activation_415[0][0]
concatenate_198 (Concatenate)	(None, 14, 14, 480)	0	concatenate_197[0][0] conv2d_412[0][0]
batch_normalization_v1_416 (Batch Normalization)	(None, 14, 14, 480)	1920	concatenate_198[0][0]
activation_416 (Activation)	(None, 14, 14, 480)	0	batch_normalization_v1_416[0][0]
conv2d_413 (Conv2D)	(None, 14, 14, 128)	61440	activation_416[0][0]
batch_normalization_v1_417 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_413[0][0]
activation_417 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_417[0][0]
conv2d_414 (Conv2D)	(None, 14, 14, 32)	36864	activation_417[0][0]
concatenate_199 (Concatenate)	(None, 14, 14, 512)	0	concatenate_198[0][0] conv2d_414[0][0]
batch_normalization_v1_418 (Batch Normalization)	(None, 14, 14, 512)	2048	concatenate_199[0][0]
activation_418 (Activation)	(None, 14, 14, 512)	0	batch_normalization_v1_418[0][0]
conv2d_415 (Conv2D)	(None, 14, 14, 128)	65536	activation_418[0][0]
batch_normalization_v1_419 (Batch Normalization)	(None, 14, 14, 128)	512	conv2d_415[0][0]
activation_419 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_419[0][0]

conv2d_416 (Conv2D)	(None, 14, 14, 32)	36864	activation_419[0][0]
concatenate_200 (Concatenate)	(None, 14, 14, 544)	0	concatenate_199[0][0] conv2d_416[0][0]
batch_normalization_v1_420 (Bat	(None, 14, 14, 544)	2176	concatenate_200[0][0]
activation_420 (Activation)	(None, 14, 14, 544)	0	batch_normalization_v1_420[0][0]
conv2d_417 (Conv2D)	(None, 14, 14, 128)	69632	activation_420[0][0]
batch_normalization_v1_421 (Bat	(None, 14, 14, 128)	512	conv2d_417[0][0]
activation_421 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_421[0][0]
conv2d_418 (Conv2D)	(None, 14, 14, 32)	36864	activation_421[0][0]
concatenate_201 (Concatenate)	(None, 14, 14, 576)	0	concatenate_200[0][0] conv2d_418[0][0]
batch_normalization_v1_422 (Bat	(None, 14, 14, 576)	2304	concatenate_201[0][0]
activation_422 (Activation)	(None, 14, 14, 576)	0	batch_normalization_v1_422[0][0]
conv2d_419 (Conv2D)	(None, 14, 14, 128)	73728	activation_422[0][0]
batch_normalization_v1_423 (Bat	(None, 14, 14, 128)	512	conv2d_419[0][0]
activation_423 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_423[0][0]
conv2d_420 (Conv2D)	(None, 14, 14, 32)	36864	activation_423[0][0]
concatenate_202 (Concatenate)	(None, 14, 14, 608)	0	concatenate_201[0][0] conv2d_420[0][0]
batch_normalization_v1_424 (Bat	(None, 14, 14, 608)	2432	concatenate_202[0][0]
activation_424 (Activation)	(None, 14, 14, 608)	0	batch_normalization_v1_424[0][0]
conv2d_421 (Conv2D)	(None, 14, 14, 128)	77824	activation_424[0][0]
batch_normalization_v1_425 (Bat	(None, 14, 14, 128)	512	conv2d_421[0][0]
activation_425 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_425[0][0]
conv2d_422 (Conv2D)	(None, 14, 14, 32)	36864	activation_425[0][0]
concatenate_203 (Concatenate)	(None, 14, 14, 640)	0	concatenate_202[0][0] conv2d_422[0][0]
batch_normalization_v1_426 (Bat	(None, 14, 14, 640)	2560	concatenate_203[0][0]
activation_426 (Activation)	(None, 14, 14, 640)	0	batch_normalization_v1_426[0][0]
conv2d_423 (Conv2D)	(None, 14, 14, 128)	81920	activation_426[0][0]
batch_normalization_v1_427 (Bat	(None, 14, 14, 128)	512	conv2d_423[0][0]
activation_427 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_427[0][0]
conv2d_424 (Conv2D)	(None, 14, 14, 32)	36864	activation_427[0][0]
concatenate_204 (Concatenate)	(None, 14, 14, 672)	0	concatenate_203[0][0] conv2d_424[0][0]
batch_normalization_v1_428 (Bat	(None, 14, 14, 672)	2688	concatenate_204[0][0]
activation_428 (Activation)	(None, 14, 14, 672)	0	batch_normalization_v1_428[0][0]
conv2d_425 (Conv2D)	(None, 14, 14, 128)	86016	activation_428[0][0]
batch_normalization_v1_429 (Bat	(None, 14, 14, 128)	512	conv2d_425[0][0]
activation_429 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_429[0][0]
conv2d_426 (Conv2D)	(None, 14, 14, 32)	36864	activation_429[0][0]
concatenate_205 (Concatenate)	(None, 14, 14, 704)	0	concatenate_204[0][0] conv2d_426[0][0]
batch_normalization_v1_430 (Bat	(None, 14, 14, 704)	2816	concatenate_205[0][0]
activation_430 (Activation)	(None, 14, 14, 704)	0	batch_normalization_v1_430[0][0]
conv2d_427 (Conv2D)	(None, 14, 14, 128)	90112	activation_430[0][0]

batch_normalization_v1_431 (Bat	(None, 14, 14, 128)	512	conv2d_427[0][0]
activation_431 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_431[0][0]
conv2d_428 (Conv2D)	(None, 14, 14, 32)	36864	activation_431[0][0]
concatenate_206 (Concatenate)	(None, 14, 14, 736)	0	concatenate_205[0][0] conv2d_428[0][0]
batch_normalization_v1_432 (Bat	(None, 14, 14, 736)	2944	concatenate_206[0][0]
activation_432 (Activation)	(None, 14, 14, 736)	0	batch_normalization_v1_432[0][0]
conv2d_429 (Conv2D)	(None, 14, 14, 128)	94208	activation_432[0][0]
batch_normalization_v1_433 (Bat	(None, 14, 14, 128)	512	conv2d_429[0][0]
activation_433 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_433[0][0]
conv2d_430 (Conv2D)	(None, 14, 14, 32)	36864	activation_433[0][0]
concatenate_207 (Concatenate)	(None, 14, 14, 768)	0	concatenate_206[0][0] conv2d_430[0][0]
batch_normalization_v1_434 (Bat	(None, 14, 14, 768)	3072	concatenate_207[0][0]
activation_434 (Activation)	(None, 14, 14, 768)	0	batch_normalization_v1_434[0][0]
conv2d_431 (Conv2D)	(None, 14, 14, 128)	98304	activation_434[0][0]
batch_normalization_v1_435 (Bat	(None, 14, 14, 128)	512	conv2d_431[0][0]
activation_435 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_435[0][0]
conv2d_432 (Conv2D)	(None, 14, 14, 32)	36864	activation_435[0][0]
concatenate_208 (Concatenate)	(None, 14, 14, 800)	0	concatenate_207[0][0] conv2d_432[0][0]
batch_normalization_v1_436 (Bat	(None, 14, 14, 800)	3200	concatenate_208[0][0]
activation_436 (Activation)	(None, 14, 14, 800)	0	batch_normalization_v1_436[0][0]
conv2d_433 (Conv2D)	(None, 14, 14, 128)	102400	activation_436[0][0]
batch_normalization_v1_437 (Bat	(None, 14, 14, 128)	512	conv2d_433[0][0]
activation_437 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_437[0][0]
conv2d_434 (Conv2D)	(None, 14, 14, 32)	36864	activation_437[0][0]
concatenate_209 (Concatenate)	(None, 14, 14, 832)	0	concatenate_208[0][0] conv2d_434[0][0]
batch_normalization_v1_438 (Bat	(None, 14, 14, 832)	3328	concatenate_209[0][0]
activation_438 (Activation)	(None, 14, 14, 832)	0	batch_normalization_v1_438[0][0]
conv2d_435 (Conv2D)	(None, 14, 14, 128)	106496	activation_438[0][0]
batch_normalization_v1_439 (Bat	(None, 14, 14, 128)	512	conv2d_435[0][0]
activation_439 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_439[0][0]
conv2d_436 (Conv2D)	(None, 14, 14, 32)	36864	activation_439[0][0]
concatenate_210 (Concatenate)	(None, 14, 14, 864)	0	concatenate_209[0][0] conv2d_436[0][0]
batch_normalization_v1_440 (Bat	(None, 14, 14, 864)	3456	concatenate_210[0][0]
activation_440 (Activation)	(None, 14, 14, 864)	0	batch_normalization_v1_440[0][0]
conv2d_437 (Conv2D)	(None, 14, 14, 128)	110592	activation_440[0][0]
batch_normalization_v1_441 (Bat	(None, 14, 14, 128)	512	conv2d_437[0][0]
activation_441 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_441[0][0]
conv2d_438 (Conv2D)	(None, 14, 14, 32)	36864	activation_441[0][0]
concatenate_211 (Concatenate)	(None, 14, 14, 896)	0	concatenate_210[0][0] conv2d_438[0][0]
batch_normalization_v1_442 (Bat	(None, 14, 14, 896)	3584	concatenate_211[0][0]

activation_442 (Activation)	(None, 14, 14, 896)	0	batch_normalization_v1_442[0][0]
conv2d_439 (Conv2D)	(None, 14, 14, 128)	114688	activation_442[0][0]
batch_normalization_v1_443 (Bat	(None, 14, 14, 128)	512	conv2d_439[0][0]
activation_443 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_443[0][0]
conv2d_440 (Conv2D)	(None, 14, 14, 32)	36864	activation_443[0][0]
concatenate_212 (Concatenate)	(None, 14, 14, 928)	0	concatenate_211[0][0] conv2d_440[0][0]
batch_normalization_v1_444 (Bat	(None, 14, 14, 928)	3712	concatenate_212[0][0]
activation_444 (Activation)	(None, 14, 14, 928)	0	batch_normalization_v1_444[0][0]
conv2d_441 (Conv2D)	(None, 14, 14, 128)	118784	activation_444[0][0]
batch_normalization_v1_445 (Bat	(None, 14, 14, 128)	512	conv2d_441[0][0]
activation_445 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_445[0][0]
conv2d_442 (Conv2D)	(None, 14, 14, 32)	36864	activation_445[0][0]
concatenate_213 (Concatenate)	(None, 14, 14, 960)	0	concatenate_212[0][0] conv2d_442[0][0]
batch_normalization_v1_446 (Bat	(None, 14, 14, 960)	3840	concatenate_213[0][0]
activation_446 (Activation)	(None, 14, 14, 960)	0	batch_normalization_v1_446[0][0]
conv2d_443 (Conv2D)	(None, 14, 14, 128)	122880	activation_446[0][0]
batch_normalization_v1_447 (Bat	(None, 14, 14, 128)	512	conv2d_443[0][0]
activation_447 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_447[0][0]
conv2d_444 (Conv2D)	(None, 14, 14, 32)	36864	activation_447[0][0]
concatenate_214 (Concatenate)	(None, 14, 14, 992)	0	concatenate_213[0][0] conv2d_444[0][0]
batch_normalization_v1_448 (Bat	(None, 14, 14, 992)	3968	concatenate_214[0][0]
activation_448 (Activation)	(None, 14, 14, 992)	0	batch_normalization_v1_448[0][0]
conv2d_445 (Conv2D)	(None, 14, 14, 128)	126976	activation_448[0][0]
batch_normalization_v1_449 (Bat	(None, 14, 14, 128)	512	conv2d_445[0][0]
activation_449 (Activation)	(None, 14, 14, 128)	0	batch_normalization_v1_449[0][0]
conv2d_446 (Conv2D)	(None, 14, 14, 32)	36864	activation_449[0][0]
concatenate_215 (Concatenate)	(None, 14, 14, 1024)	0	concatenate_214[0][0] conv2d_446[0][0]
batch_normalization_v1_450 (Bat	(None, 14, 14, 1024)	4096	concatenate_215[0][0]
activation_450 (Activation)	(None, 14, 14, 1024)	0	batch_normalization_v1_450[0][0]
conv2d_447 (Conv2D)	(None, 14, 14, 512)	524288	activation_450[0][0]
average_pooling2d_11 (AveragePo	(None, 7, 7, 512)	0	conv2d_447[0][0]
batch_normalization_v1_451 (Bat	(None, 7, 7, 512)	2048	average_pooling2d_11[0][0]
activation_451 (Activation)	(None, 7, 7, 512)	0	batch_normalization_v1_451[0][0]
conv2d_448 (Conv2D)	(None, 7, 7, 128)	65536	activation_451[0][0]
batch_normalization_v1_452 (Bat	(None, 7, 7, 128)	512	conv2d_448[0][0]
activation_452 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_452[0][0]
conv2d_449 (Conv2D)	(None, 7, 7, 32)	36864	activation_452[0][0]
concatenate_216 (Concatenate)	(None, 7, 7, 544)	0	average_pooling2d_11[0][0] conv2d_449[0][0]
batch_normalization_v1_453 (Bat	(None, 7, 7, 544)	2176	concatenate_216[0][0]
activation_453 (Activation)	(None, 7, 7, 544)	0	batch_normalization_v1_453[0][0]
conv2d_450 (Conv2D)	(None, 7, 7, 128)	69632	activation_453[0][0]

batch_normalization_v1_454 (Bat	(None, 7, 7, 128)	512	conv2d_450[0][0]
activation_454 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_454[0][0]
conv2d_451 (Conv2D)	(None, 7, 7, 32)	36864	activation_454[0][0]
concatenate_217 (Concatenate)	(None, 7, 7, 576)	0	concatenate_216[0][0] conv2d_451[0][0]
batch_normalization_v1_455 (Bat	(None, 7, 7, 576)	2304	concatenate_217[0][0]
activation_455 (Activation)	(None, 7, 7, 576)	0	batch_normalization_v1_455[0][0]
conv2d_452 (Conv2D)	(None, 7, 7, 128)	73728	activation_455[0][0]
batch_normalization_v1_456 (Bat	(None, 7, 7, 128)	512	conv2d_452[0][0]
activation_456 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_456[0][0]
conv2d_453 (Conv2D)	(None, 7, 7, 32)	36864	activation_456[0][0]
concatenate_218 (Concatenate)	(None, 7, 7, 608)	0	concatenate_217[0][0] conv2d_453[0][0]
batch_normalization_v1_457 (Bat	(None, 7, 7, 608)	2432	concatenate_218[0][0]
activation_457 (Activation)	(None, 7, 7, 608)	0	batch_normalization_v1_457[0][0]
conv2d_454 (Conv2D)	(None, 7, 7, 128)	77824	activation_457[0][0]
batch_normalization_v1_458 (Bat	(None, 7, 7, 128)	512	conv2d_454[0][0]
activation_458 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_458[0][0]
conv2d_455 (Conv2D)	(None, 7, 7, 32)	36864	activation_458[0][0]
concatenate_219 (Concatenate)	(None, 7, 7, 640)	0	concatenate_218[0][0] conv2d_455[0][0]
batch_normalization_v1_459 (Bat	(None, 7, 7, 640)	2560	concatenate_219[0][0]
activation_459 (Activation)	(None, 7, 7, 640)	0	batch_normalization_v1_459[0][0]
conv2d_456 (Conv2D)	(None, 7, 7, 128)	81920	activation_459[0][0]
batch_normalization_v1_460 (Bat	(None, 7, 7, 128)	512	conv2d_456[0][0]
activation_460 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_460[0][0]
conv2d_457 (Conv2D)	(None, 7, 7, 32)	36864	activation_460[0][0]
concatenate_220 (Concatenate)	(None, 7, 7, 672)	0	concatenate_219[0][0] conv2d_457[0][0]
batch_normalization_v1_461 (Bat	(None, 7, 7, 672)	2688	concatenate_220[0][0]
activation_461 (Activation)	(None, 7, 7, 672)	0	batch_normalization_v1_461[0][0]
conv2d_458 (Conv2D)	(None, 7, 7, 128)	86016	activation_461[0][0]
batch_normalization_v1_462 (Bat	(None, 7, 7, 128)	512	conv2d_458[0][0]
activation_462 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_462[0][0]
conv2d_459 (Conv2D)	(None, 7, 7, 32)	36864	activation_462[0][0]
concatenate_221 (Concatenate)	(None, 7, 7, 704)	0	concatenate_220[0][0] conv2d_459[0][0]
batch_normalization_v1_463 (Bat	(None, 7, 7, 704)	2816	concatenate_221[0][0]
activation_463 (Activation)	(None, 7, 7, 704)	0	batch_normalization_v1_463[0][0]
conv2d_460 (Conv2D)	(None, 7, 7, 128)	90112	activation_463[0][0]
batch_normalization_v1_464 (Bat	(None, 7, 7, 128)	512	conv2d_460[0][0]
activation_464 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_464[0][0]
conv2d_461 (Conv2D)	(None, 7, 7, 32)	36864	activation_464[0][0]
concatenate_222 (Concatenate)	(None, 7, 7, 736)	0	concatenate_221[0][0] conv2d_461[0][0]
batch_normalization_v1_465 (Bat	(None, 7, 7, 736)	2944	concatenate_222[0][0]

activation_465 (Activation)	(None, 7, 7, 736)	0	batch_normalization_v1_465[0][0]
conv2d_462 (Conv2D)	(None, 7, 7, 128)	94208	activation_465[0][0]
batch_normalization_v1_466 (Bat	(None, 7, 7, 128)	512	conv2d_462[0][0]
activation_466 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_466[0][0]
conv2d_463 (Conv2D)	(None, 7, 7, 32)	36864	activation_466[0][0]
concatenate_223 (Concatenate)	(None, 7, 7, 768)	0	concatenate_222[0][0] conv2d_463[0][0]
batch_normalization_v1_467 (Bat	(None, 7, 7, 768)	3072	concatenate_223[0][0]
activation_467 (Activation)	(None, 7, 7, 768)	0	batch_normalization_v1_467[0][0]
conv2d_464 (Conv2D)	(None, 7, 7, 128)	98304	activation_467[0][0]
batch_normalization_v1_468 (Bat	(None, 7, 7, 128)	512	conv2d_464[0][0]
activation_468 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_468[0][0]
conv2d_465 (Conv2D)	(None, 7, 7, 32)	36864	activation_468[0][0]
concatenate_224 (Concatenate)	(None, 7, 7, 800)	0	concatenate_223[0][0] conv2d_465[0][0]
batch_normalization_v1_469 (Bat	(None, 7, 7, 800)	3200	concatenate_224[0][0]
activation_469 (Activation)	(None, 7, 7, 800)	0	batch_normalization_v1_469[0][0]
conv2d_466 (Conv2D)	(None, 7, 7, 128)	102400	activation_469[0][0]
batch_normalization_v1_470 (Bat	(None, 7, 7, 128)	512	conv2d_466[0][0]
activation_470 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_470[0][0]
conv2d_467 (Conv2D)	(None, 7, 7, 32)	36864	activation_470[0][0]
concatenate_225 (Concatenate)	(None, 7, 7, 832)	0	concatenate_224[0][0] conv2d_467[0][0]
batch_normalization_v1_471 (Bat	(None, 7, 7, 832)	3328	concatenate_225[0][0]
activation_471 (Activation)	(None, 7, 7, 832)	0	batch_normalization_v1_471[0][0]
conv2d_468 (Conv2D)	(None, 7, 7, 128)	106496	activation_471[0][0]
batch_normalization_v1_472 (Bat	(None, 7, 7, 128)	512	conv2d_468[0][0]
activation_472 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_472[0][0]
conv2d_469 (Conv2D)	(None, 7, 7, 32)	36864	activation_472[0][0]
concatenate_226 (Concatenate)	(None, 7, 7, 864)	0	concatenate_225[0][0] conv2d_469[0][0]
batch_normalization_v1_473 (Bat	(None, 7, 7, 864)	3456	concatenate_226[0][0]
activation_473 (Activation)	(None, 7, 7, 864)	0	batch_normalization_v1_473[0][0]
conv2d_470 (Conv2D)	(None, 7, 7, 128)	110592	activation_473[0][0]
batch_normalization_v1_474 (Bat	(None, 7, 7, 128)	512	conv2d_470[0][0]
activation_474 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_474[0][0]
conv2d_471 (Conv2D)	(None, 7, 7, 32)	36864	activation_474[0][0]
concatenate_227 (Concatenate)	(None, 7, 7, 896)	0	concatenate_226[0][0] conv2d_471[0][0]
batch_normalization_v1_475 (Bat	(None, 7, 7, 896)	3584	concatenate_227[0][0]
activation_475 (Activation)	(None, 7, 7, 896)	0	batch_normalization_v1_475[0][0]
conv2d_472 (Conv2D)	(None, 7, 7, 128)	114688	activation_475[0][0]
batch_normalization_v1_476 (Bat	(None, 7, 7, 128)	512	conv2d_472[0][0]
activation_476 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_476[0][0]
conv2d_473 (Conv2D)	(None, 7, 7, 32)	36864	activation_476[0][0]

concatenate_228 (Concatenate)	(None, 7, 7, 928)	0	concatenate_227[0][0] conv2d_473[0][0]
batch_normalization_v1_477 (Batch Normalization)	(None, 7, 7, 928)	3712	concatenate_228[0][0]
activation_477 (Activation)	(None, 7, 7, 928)	0	batch_normalization_v1_477[0][0]
conv2d_474 (Conv2D)	(None, 7, 7, 128)	118784	activation_477[0][0]
batch_normalization_v1_478 (Batch Normalization)	(None, 7, 7, 128)	512	conv2d_474[0][0]
activation_478 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_478[0][0]
conv2d_475 (Conv2D)	(None, 7, 7, 32)	36864	activation_478[0][0]
concatenate_229 (Concatenate)	(None, 7, 7, 960)	0	concatenate_228[0][0] conv2d_475[0][0]
batch_normalization_v1_479 (Batch Normalization)	(None, 7, 7, 960)	3840	concatenate_229[0][0]
activation_479 (Activation)	(None, 7, 7, 960)	0	batch_normalization_v1_479[0][0]
conv2d_476 (Conv2D)	(None, 7, 7, 128)	122880	activation_479[0][0]
batch_normalization_v1_480 (Batch Normalization)	(None, 7, 7, 128)	512	conv2d_476[0][0]
activation_480 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_480[0][0]
conv2d_477 (Conv2D)	(None, 7, 7, 32)	36864	activation_480[0][0]
concatenate_230 (Concatenate)	(None, 7, 7, 992)	0	concatenate_229[0][0] conv2d_477[0][0]
batch_normalization_v1_481 (Batch Normalization)	(None, 7, 7, 992)	3968	concatenate_230[0][0]
activation_481 (Activation)	(None, 7, 7, 992)	0	batch_normalization_v1_481[0][0]
conv2d_478 (Conv2D)	(None, 7, 7, 128)	126976	activation_481[0][0]
batch_normalization_v1_482 (Batch Normalization)	(None, 7, 7, 128)	512	conv2d_478[0][0]
activation_482 (Activation)	(None, 7, 7, 128)	0	batch_normalization_v1_482[0][0]
conv2d_479 (Conv2D)	(None, 7, 7, 32)	36864	activation_482[0][0]
concatenate_231 (Concatenate)	(None, 7, 7, 1024)	0	concatenate_230[0][0] conv2d_479[0][0]
batch_normalization_v1_483 (Batch Normalization)	(None, 7, 7, 1024)	4096	concatenate_231[0][0]
activation_483 (Activation)	(None, 7, 7, 1024)	0	batch_normalization_v1_483[0][0]
global_avg_pooling (Global Average Pooling)	(None, 1024)	0	activation_483[0][0]
dense_3 (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) : 30

Epoch 1/30

190/190 [=====] - 1880s 10s/step - loss: 5.3755 - acc: 0.2362

Epoch 00001: saving model to /content/drive/My Drive/images/models/model_ex-001_acc-0.236187.h5

757/757 [=====] - 10635s 14s/step - loss: 2.4553 - acc: 0.3247 - val_loss: 5.3755 - val_acc: 0.2362

Epoch 2/30

190/190 [=====] - 49s 260ms/step - loss: 1.3856 - acc: 0.5060

Epoch 00002: saving model to /content/drive/My Drive/images/models/model_ex-002_acc-0.506020.h5

757/757 [=====] - 716s 945ms/step - loss: 1.5536 - acc: 0.4642 - val_loss: 1.3856 - val_acc: 0.5060

Epoch 3/30

190/190 [=====] - 49s 257ms/step - loss: 1.5012 - acc: 0.4572

Epoch 00003: saving model to /content/drive/My Drive/images/models/model_ex-003_acc-0.457199.h5

757/757 [=====] - 715s 944ms/step - loss: 1.2939 - acc: 0.5417 - val_loss: 1.5012 - val_acc: 0.4572

Epoch 4/30

190/190 [=====] - 49s 258ms/step - loss: 1.3382 - acc: 0.4814

Epoch 00004: saving model to /content/drive/My Drive/images/models/model_ex-004_acc-0.481445.h5

757/757 [=====] - 714s 943ms/step - loss: 1.1707 - acc: 0.5956 - val_loss: 1.3382 - val_acc: 0.4814

Epoch 5/30

190/190 [=====] - 49s 256ms/step - loss: 1.0856 - acc: 0.6172

Epoch 00005: saving model to /content/drive/My Drive/images/models/model_ex-005_acc-0.617186.h5
757/757 [=====] - 713s 943ms/step - loss: 1.0922 - acc: 0.6203 - val_loss: 1.0856 - val_acc: 0.6172
Epoch 6/30
190/190 [=====] - 49s 257ms/step - loss: 1.2055 - acc: 0.5694

Epoch 00006: saving model to /content/drive/My Drive/images/models/model_ex-006_acc-0.569355.h5
757/757 [=====] - 715s 944ms/step - loss: 1.0403 - acc: 0.6414 - val_loss: 1.2055 - val_acc: 0.5694
Epoch 7/30
190/190 [=====] - 49s 256ms/step - loss: 1.0862 - acc: 0.6169

Epoch 00007: saving model to /content/drive/My Drive/images/models/model_ex-007_acc-0.616856.h5
757/757 [=====] - 714s 944ms/step - loss: 0.9914 - acc: 0.6610 - val_loss: 1.0862 - val_acc: 0.6169
Epoch 8/30
190/190 [=====] - 49s 258ms/step - loss: 1.0796 - acc: 0.6263

Epoch 00008: saving model to /content/drive/My Drive/images/models/model_ex-008_acc-0.626258.h5
757/757 [=====] - 714s 944ms/step - loss: 0.9612 - acc: 0.6730 - val_loss: 1.0796 - val_acc: 0.6263
Epoch 9/30
190/190 [=====] - 49s 255ms/step - loss: 1.1807 - acc: 0.6226

Epoch 00009: saving model to /content/drive/My Drive/images/models/model_ex-009_acc-0.622629.h5
757/757 [=====] - 714s 943ms/step - loss: 0.9251 - acc: 0.6864 - val_loss: 1.1807 - val_acc: 0.6226
Epoch 10/30
190/190 [=====] - 49s 257ms/step - loss: 0.9914 - acc: 0.6591

Epoch 00010: saving model to /content/drive/My Drive/images/models/model_ex-010_acc-0.659080.h5
757/757 [=====] - 713s 942ms/step - loss: 0.9035 - acc: 0.6919 - val_loss: 0.9914 - val_acc: 0.6591
Epoch 11/30
190/190 [=====] - 49s 258ms/step - loss: 1.0027 - acc: 0.6490

Epoch 00011: saving model to /content/drive/My Drive/images/models/model_ex-011_acc-0.649019.h5
757/757 [=====] - 715s 944ms/step - loss: 0.8767 - acc: 0.7005 - val_loss: 1.0027 - val_acc: 0.6490
Epoch 12/30
190/190 [=====] - 49s 259ms/step - loss: 0.9925 - acc: 0.6487

Epoch 00012: saving model to /content/drive/My Drive/images/models/model_ex-012_acc-0.648689.h5
757/757 [=====] - 714s 944ms/step - loss: 0.8558 - acc: 0.7117 - val_loss: 0.9925 - val_acc: 0.6487
Epoch 13/30
190/190 [=====] - 49s 257ms/step - loss: 0.9895 - acc: 0.6677

Epoch 00013: saving model to /content/drive/My Drive/images/models/model_ex-013_acc-0.667656.h5
757/757 [=====] - 714s 943ms/step - loss: 0.8378 - acc: 0.7229 - val_loss: 0.9895 - val_acc: 0.6677
Epoch 14/30
190/190 [=====] - 49s 257ms/step - loss: 0.7856 - acc: 0.7391

Epoch 00014: saving model to /content/drive/My Drive/images/models/model_ex-014_acc-0.739073.h5
757/757 [=====] - 715s 944ms/step - loss: 0.7450 - acc: 0.7561 - val_loss: 0.7856 - val_acc: 0.7391
Epoch 15/30
190/190 [=====] - 49s 256ms/step - loss: 0.7820 - acc: 0.7417

Epoch 00015: saving model to /content/drive/My Drive/images/models/model_ex-015_acc-0.741712.h5
757/757 [=====] - 714s 943ms/step - loss: 0.7107 - acc: 0.7664 - val_loss: 0.7820 - val_acc: 0.7417
Epoch 16/30
190/190 [=====] - 49s 258ms/step - loss: 0.7696 - acc: 0.7472

Epoch 00016: saving model to /content/drive/My Drive/images/models/model_ex-016_acc-0.747155.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6980 - acc: 0.7697 - val_loss: 0.7696 - val_acc: 0.7472
Epoch 17/30
190/190 [=====] - 49s 255ms/step - loss: 0.7655 - acc: 0.7491

Epoch 00017: saving model to /content/drive/My Drive/images/models/model_ex-017_acc-0.749134.h5
757/757 [=====] - 714s 944ms/step - loss: 0.6818 - acc: 0.7792 - val_loss: 0.7655 - val_acc: 0.7491
Epoch 18/30
190/190 [=====] - 49s 257ms/step - loss: 0.7697 - acc: 0.7472

Epoch 00018: saving model to /content/drive/My Drive/images/models/model_ex-018_acc-0.747155.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6661 - acc: 0.7846 - val_loss: 0.7697 - val_acc: 0.7472
Epoch 19/30
190/190 [=====] - 49s 256ms/step - loss: 0.7737 - acc: 0.7476

Epoch 00019: saving model to /content/drive/My Drive/images/models/model_ex-019_acc-0.747650.h5
757/757 [=====] - 714s 944ms/step - loss: 0.6587 - acc: 0.7851 - val_loss: 0.7737 - val_acc: 0.7476
Epoch 20/30
190/190 [=====] - 49s 257ms/step - loss: 0.7668 - acc: 0.7463

Epoch 00020: saving model to /content/drive/My Drive/images/models/model_ex-020_acc-0.746330.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6401 - acc: 0.7922 - val_loss: 0.7668 - val_acc: 0.7463
Epoch 21/30
190/190 [=====] - 49s 257ms/step - loss: 0.7669 - acc: 0.7465

Epoch 00021: saving model to /content/drive/My Drive/images/models/model_ex-021_acc-0.746495.h5
757/757 [=====] - 715s 945ms/step - loss: 0.6371 - acc: 0.7931 - val_loss: 0.7669 - val_acc: 0.7465
Epoch 22/30
190/190 [=====] - 49s 256ms/step - loss: 0.7668 - acc: 0.7481

Epoch 00022: saving model to /content/drive/My Drive/images/models/model_ex-022_acc-0.748145.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6311 - acc: 0.7946 - val_loss: 0.7668 - val_acc: 0.7481
Epoch 23/30
190/190 [=====] - 49s 256ms/step - loss: 0.7666 - acc: 0.7485

Epoch 00023: saving model to /content/drive/My Drive/images/models/model_ex-023_acc-0.748474.h5
757/757 [=====] - 714s 943ms/step - loss: 0.6301 - acc: 0.7983 - val_loss: 0.7666 - val_acc: 0.7485
Epoch 24/30
190/190 [=====] - 49s 258ms/step - loss: 0.7688 - acc: 0.7485

Epoch 00024: saving model to /content/drive/My Drive/images/models/model_ex-024_acc-0.748474.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6270 - acc: 0.8015 - val_loss: 0.7688 - val_acc: 0.7485
Epoch 25/30
190/190 [=====] - 49s 257ms/step - loss: 0.7680 - acc: 0.7472

Epoch 00025: saving model to /content/drive/My Drive/images/models/model_ex-025_acc-0.747155.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6242 - acc: 0.8010 - val_loss: 0.7680 - val_acc: 0.7472
Epoch 26/30
190/190 [=====] - 49s 257ms/step - loss: 0.7676 - acc: 0.7483

Epoch 00026: saving model to /content/drive/My Drive/images/models/model_ex-026_acc-0.748309.h5
757/757 [=====] - 715s 945ms/step - loss: 0.6243 - acc: 0.7974 - val_loss: 0.7676 - val_acc: 0.7483
Epoch 27/30
190/190 [=====] - 49s 256ms/step - loss: 0.7666 - acc: 0.7488

Epoch 00027: saving model to /content/drive/My Drive/images/models/model_ex-027_acc-0.748804.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6213 - acc: 0.8008 - val_loss: 0.7666 - val_acc: 0.7488
Epoch 28/30
190/190 [=====] - 49s 257ms/step - loss: 0.7679 - acc: 0.7465

Epoch 00028: saving model to /content/drive/My Drive/images/models/model_ex-028_acc-0.746495.h5
757/757 [=====] - 715s 944ms/step - loss: 0.6230 - acc: 0.7993 - val_loss: 0.7679 - val_acc: 0.7465
Epoch 29/30
190/190 [=====] - 48s 255ms/step - loss: 0.7691 - acc: 0.7473

Epoch 00029: saving model to /content/drive/My Drive/images/models/model_ex-029_acc-0.747320.h5
757/757 [=====] - 714s 944ms/step - loss: 0.6229 - acc: 0.7979 - val_loss: 0.7691 - val_acc: 0.7473
Epoch 30/30
190/190 [=====] - 49s 257ms/step - loss: 0.7699 - acc: 0.7472

Epoch 00030: saving model to /content/drive/My Drive/images/models/model_ex-030_acc-0.747155.h5
757/757 [=====] - 714s 943ms/step - loss: 0.6244 - acc: 0.7993 - val_loss: 0.7699 - val_acc: 0.7472