Contrast stretching

Train on 8178 samples, validate on 2044 samples

Epoch 1/10

8178/8178 [==============================] - 129s 16ms/step - loss: 1.6550 - acc: 0.6573 - val\_loss: 0.5570 - val\_acc: 0.8430

Epoch 2/10

8178/8178 [==============================] - 102s 13ms/step - loss: 0.7394 - acc: 0.8037 - val\_loss: 0.5499 - val\_acc: 0.8356

Epoch 3/10

8178/8178 [==============================] - 91s 11ms/step - loss: 0.6496 - acc: 0.8184 - val\_loss: 0.5695 - val\_acc: 0.8410

Epoch 4/10

8178/8178 [==============================] - 90s 11ms/step - loss: 0.5811 - acc: 0.8361 - val\_loss: 0.5780 - val\_acc: 0.8386

Epoch 5/10

8178/8178 [==============================] - 91s 11ms/step - loss: 0.5453 - acc: 0.8436 - val\_loss: 0.5772 - val\_acc: 0.8483

Epoch 6/10

8178/8178 [==============================] - 101s 12ms/step - loss: 0.5184 - acc: 0.8531 - val\_loss: 0.5948 - val\_acc: 0.8410

Epoch 7/10

8178/8178 [==============================] - 110s 13ms/step - loss: 0.4794 - acc: 0.8579 - val\_loss: 0.6006 - val\_acc: 0.8366

Epoch 8/10

8178/8178 [==============================] - 103s 13ms/step - loss: 0.4659 - acc: 0.8616 - val\_loss: 0.6162 - val\_acc: 0.8478

Epoch 9/10

8178/8178 [==============================] - 99s 12ms/step - loss: 0.4326 - acc: 0.8687 - val\_loss: 0.6321 - val\_acc: 0.8410

Epoch 10/10

8178/8178 [==============================] - 97s 12ms/step - loss: 0.4287 - acc: 0.8743 - val\_loss: 0.6045 - val\_acc: 0.8478

No filter

Train on 8178 samples, validate on 2044 samples

Epoch 1/10

8178/8178 [==============================] - 97s 12ms/step - loss: 1.6510 - acc: 0.6542 - val\_loss: 0.5689 - val\_acc: 0.8405

Epoch 2/10

8178/8178 [==============================] - 70s 9ms/step - loss: 0.7305 - acc: 0.8094 - val\_loss: 0.5762 - val\_acc: 0.8327

Epoch 3/10

8178/8178 [==============================] - 58s 7ms/step - loss: 0.6253 - acc: 0.8264 - val\_loss: 0.5553 - val\_acc: 0.8493

Epoch 4/10

8178/8178 [==============================] - 58s 7ms/step - loss: 0.5742 - acc: 0.8341 - val\_loss: 0.5827 - val\_acc: 0.8493

Epoch 5/10

8178/8178 [==============================] - 55s 7ms/step - loss: 0.5358 - acc: 0.8489 - val\_loss: 0.5805 - val\_acc: 0.8464

Epoch 6/10

8178/8178 [==============================] - 61s 7ms/step - loss: 0.5147 - acc: 0.8492 - val\_loss: 0.5622 - val\_acc: 0.8483

Epoch 7/10

8178/8178 [==============================] - 56s 7ms/step - loss: 0.4967 - acc: 0.8522 - val\_loss: 0.5982 - val\_acc: 0.8464

Epoch 8/10

8178/8178 [==============================] - 56s 7ms/step - loss: 0.4729 - acc: 0.8585 - val\_loss: 0.5956 - val\_acc: 0.8508

Epoch 9/10

8178/8178 [==============================] - 55s 7ms/step - loss: 0.4480 - acc: 0.8684 - val\_loss: 0.5998 - val\_acc: 0.8390

Epoch 10/10

8178/8178 [==============================] - 60s 7ms/step - loss: 0.4194 - acc: 0.8725 - val\_loss: 0.6036 - val\_acc: 0.8430