Output console Model: "AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None"

runfile('C:/Users/laeth/Documents/8P361\_Imaging\_project/GitHub/8P361group12/main.py', wdir='C:/Users/laeth/Documents/8P361\_Imaging\_project/GitHub/8P361group12')

Reloaded modules: autoencoder, loss

Found 50400 images belonging to 1 classes.

Found 21600 images belonging to 1 classes.

Epoch 1/10

1575/1575 [==============================] - 6928s 4s/step - loss: 0.0386 - val\_loss: 0.0328

Epoch 00001: val\_loss improved from inf to 0.03283, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 2/10

1575/1575 [==============================] - 5213s 3s/step - loss: 0.0325 - val\_loss: 0.0320

Epoch 00002: val\_loss improved from 0.03283 to 0.03199, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 3/10

1575/1575 [==============================] - 5198s 3s/step - loss: 0.0322 - val\_loss: 0.0316

Epoch 00003: val\_loss improved from 0.03199 to 0.03164, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 4/10

1575/1575 [==============================] - 5205s 3s/step - loss: 0.0316 - val\_loss: 0.0316

Epoch 00004: val\_loss improved from 0.03164 to 0.03163, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 5/10

1575/1575 [==============================] - 5187s 3s/step - loss: 0.0317 - val\_loss: 0.0316

Epoch 00005: val\_loss improved from 0.03163 to 0.03156, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 6/10

1575/1575 [==============================] - 5152s 3s/step - loss: 0.0315 - val\_loss: 0.0321

Epoch 00006: val\_loss did not improve from 0.03156

Epoch 7/10

1575/1575 [==============================] - 5151s 3s/step - loss: 0.0312 - val\_loss: 0.0313

Epoch 00007: val\_loss improved from 0.03156 to 0.03127, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 8/10

1575/1575 [==============================] - 5209s 3s/step - loss: 0.0312 - val\_loss: 0.0312

Epoch 00008: val\_loss improved from 0.03127 to 0.03117, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 9/10

1575/1575 [==============================] - 5154s 3s/step - loss: 0.0312 - val\_loss: 0.0311

Epoch 00009: val\_loss improved from 0.03117 to 0.03106, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Epoch 10/10

1575/1575 [==============================] - 5150s 3s/step - loss: 0.0311 - val\_loss: 0.0310

Epoch 00010: val\_loss improved from 0.03106 to 0.03099, saving model to ./models\AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None\_W\_E10\_L-MeanSquaredError\_D21-03-2021\_22-29-07.hdf5

Runtime of "TrainModel" took 53549.45 seconds

Model: "AE\_v2\_F128.64.32.2\_K3.3\_P2.2\_Dbn-None"

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Layer (type) Output Shape Param #

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input\_4 (InputLayer) [(None, 96, 96, 3)] 0

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conv2d\_9 (Conv2D) (None, 96, 96, 128) 3584

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max\_pooling2d\_4 (MaxPooling2 (None, 48, 48, 128) 0

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conv2d\_10 (Conv2D) (None, 48, 48, 64) 73792

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max\_pooling2d\_5 (MaxPooling2 (None, 24, 24, 64) 0

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conv2d\_11 (Conv2D) (None, 24, 24, 32) 18464

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max\_pooling2d\_6 (MaxPooling2 (None, 12, 12, 32) 0

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conv2d\_12 (Conv2D) (None, 12, 12, 2) 578

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max\_pooling2d\_7 (MaxPooling2 (None, 6, 6, 2) 0

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conv2d\_13 (Conv2D) (None, 6, 6, 2) 38

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up\_sampling2d\_4 (UpSampling2 (None, 12, 12, 2) 0

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conv2d\_14 (Conv2D) (None, 12, 12, 32) 608

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up\_sampling2d\_5 (UpSampling2 (None, 24, 24, 32) 0

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conv2d\_15 (Conv2D) (None, 24, 24, 64) 18496

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up\_sampling2d\_6 (UpSampling2 (None, 48, 48, 64) 0

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conv2d\_16 (Conv2D) (None, 48, 48, 128) 73856

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up\_sampling2d\_7 (UpSampling2 (None, 96, 96, 128) 0

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conv2d\_17 (Conv2D) (None, 96, 96, 3) 3459

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Total params: 192,875

Trainable params: 192,875

Non-trainable params: 0