

train_model
C:\Users\amaindola\Anaconda3\envs\img-quality- assesment\python.exe "C:/Users/amaindola/Google Drive/Colab
Notebooks/img-quality- assesment/nima/model/train_model.py" -n efficientnet -s 3000 -b 128 -t technical -f True -e
20 -v 1
2021-08-08 09:11:25.625235: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:11:25.625516: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
Images directory C:\Users\amaindola\Google Drive\Colab Notebooks\img-quality- assesment\data\tid2013\
distorted_images
Number of samples picked 3000
NIMA Base CNN module - tensorflow.keras.applications.efficientnet.EfficientNetB3
2021-08-08 09:11:34.239741: I tensorflow/stream_executor/platform/default/dso_loader.cc:53] Successfully opened
dynamic library nvcuda.dll
2021-08-08 09:11:34.464622: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1733] Found device 0 with
properties:
pciBusID: 0000:01:00.0 name: Quadro P2000 with Max-Q Design computeCapability: 6.1
coreClock: 1.468GHz coreCount: 6 deviceMemorySize: 4.00GiB deviceMemoryBandwidth: 89.53GiB/s
2021-08-08 09:11:34.466289: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:11:34.467704: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cublas64_11.dll'; dlerror: cublas64_11.dll not found
2021-08-08 09:11:34.469080: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cublasLt64_11.dll'; dlerror: cublasLt64_11.dll not found
2021-08-08 09:11:34.470459: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cuffft64_10.dll'; dlerror: cuffft64_10.dll not found
2021-08-08 09:11:34.471815: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'curand64_10.dll'; dlerror: curand64_10.dll not found
2021-08-08 09:11:34.473177: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cusolver64_11.dll'; dlerror: cusolver64_11.dll not found
2021-08-08 09:11:34.474544: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cusparse64_11.dll'; dlerror: cusparse64_11.dll not found
2021-08-08 09:11:34.476314: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudnn64_8.dll'; dlerror: cudnn64_8.dll not found
2021-08-08 09:11:34.476506: W tensorflow/core/common_runtime/gpu/gpu_device.cc:1766] Cannot dlopen some GPU
libraries. Please make sure the missing libraries mentioned above are installed properly if you would like to use
GPU. Follow the guide at <https://www.tensorflow.org/install/gpu> for how to download and setup the required
libraries for your platform.
Skipping registering GPU devices...
2021-08-08 09:11:34.477297: I tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is
optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-
critical operations: AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
2021-08-08 09:11:34.479777: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1258] Device interconnect
StreamExecutor with strength 1 edge matrix:
2021-08-08 09:11:34.479937: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1264]
Downloading data from https://storage.googleapis.com/keras-applications/efficientnetb3_notop.h5
43941888/43941136 [=====] - 17s 0us/step
Freezing base CNN layers.
Model compiled successfully.
Model: "model"

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	[(None, 256, 256, 3) 0		
rescaling (Rescaling)	(None, 256, 256, 3) 0		input_1[0][0]
normalization (Normalization)	(None, 256, 256, 3) 7		rescaling[0][0]
stem_conv_pad (ZeroPadding2D)	(None, 257, 257, 3) 0		normalization[0][0]
stem_conv (Conv2D)	(None, 128, 128, 40) 1080		stem_conv_pad[0][0]
stem_bn (BatchNormalization)	(None, 128, 128, 40) 160		stem_conv[0][0]
stem_activation (Activation)	(None, 128, 128, 40) 0		stem_bn[0][0]
block1a_dwconv (DepthwiseConv2D	(None, 128, 128, 40) 360		stem_activation[0][0]
block1a_bn (BatchNormalization)	(None, 128, 128, 40) 160		block1a_dwconv[0][0]
block1a_activation (Activation)	(None, 128, 128, 40) 0		block1a_bn[0][0]

train_model	block1a_se_squeeze (GlobalAveragePooling2D)	(None, 40)	0	block1a_activation[0][0]
	block1a_se_reshape (Reshape)	(None, 1, 1, 40)	0	block1a_se_squeeze[0][0]
	block1a_se_reduce (Conv2D)	(None, 1, 1, 10)	410	block1a_se_reshape[0][0]
	block1a_se_expand (Conv2D)	(None, 1, 1, 40)	440	block1a_se_reduce[0][0]
	block1a_se_excite (Multiply)	(None, 128, 128, 40)	0	block1a_activation[0][0] block1a_se_expand[0][0]
	block1a_project_conv (Conv2D)	(None, 128, 128, 24)	960	block1a_se_excite[0][0]
	block1a_project_bn (BatchNormalization)	(None, 128, 128, 24)	96	block1a_project_conv[0][0]
	block1b_dwconv (DepthwiseConv2D)	(None, 128, 128, 24)	216	block1a_project_bn[0][0]
	block1b_bn (BatchNormalization)	(None, 128, 128, 24)	96	block1b_dwconv[0][0]
	block1b_activation (Activation)	(None, 128, 128, 24)	0	block1b_bn[0][0]
	block1b_se_squeeze (GlobalAveragePooling2D)	(None, 24)	0	block1b_activation[0][0]
	block1b_se_reshape (Reshape)	(None, 1, 1, 24)	0	block1b_se_squeeze[0][0]
	block1b_se_reduce (Conv2D)	(None, 1, 1, 6)	150	block1b_se_reshape[0][0]
	block1b_se_expand (Conv2D)	(None, 1, 1, 24)	168	block1b_se_reduce[0][0]
	block1b_se_excite (Multiply)	(None, 128, 128, 24)	0	block1b_activation[0][0] block1b_se_expand[0][0]
	block1b_project_conv (Conv2D)	(None, 128, 128, 24)	576	block1b_se_excite[0][0]
	block1b_project_bn (BatchNormalization)	(None, 128, 128, 24)	96	block1b_project_conv[0][0]
	block1b_drop (Dropout)	(None, 128, 128, 24)	0	block1b_project_bn[0][0]
	block1b_add (Add)	(None, 128, 128, 24)	0	block1b_drop[0][0] block1a_project_bn[0][0]
	block2a_expand_conv (Conv2D)	(None, 128, 128, 144)	3456	block1b_add[0][0]
	block2a_expand_bn (BatchNormalization)	(None, 128, 128, 144)	576	block2a_expand_conv[0][0]
	block2a_expand_activation (Activation)	(None, 128, 128, 144)	0	block2a_expand_bn[0][0]
	block2a_dwconv_pad (ZeroPadding2D)	(None, 129, 129, 144)	0	block2a_expand_activation[0][0]
	block2a_dwconv (DepthwiseConv2D)	(None, 64, 64, 144)	1296	block2a_dwconv_pad[0][0]
	block2a_bn (BatchNormalization)	(None, 64, 64, 144)	576	block2a_dwconv[0][0]
	block2a_activation (Activation)	(None, 64, 64, 144)	0	block2a_bn[0][0]
	block2a_se_squeeze (GlobalAveragePooling2D)	(None, 144)	0	block2a_activation[0][0]
	block2a_se_reshape (Reshape)	(None, 1, 1, 144)	0	block2a_se_squeeze[0][0]
	block2a_se_reduce (Conv2D)	(None, 1, 1, 6)	870	block2a_se_reshape[0][0]
	block2a_se_expand (Conv2D)	(None, 1, 1, 144)	1008	block2a_se_reduce[0][0]
	block2a_se_excite (Multiply)	(None, 64, 64, 144)	0	block2a_activation[0][0] block2a_se_expand[0][0]
	block2a_project_conv (Conv2D)	(None, 64, 64, 32)	4608	block2a_se_excite[0][0]
	block2a_project_bn (BatchNormalization)	(None, 64, 64, 32)	128	block2a_project_conv[0][0]
	block2b_expand_conv (Conv2D)	(None, 64, 64, 192)	6144	block2a_project_bn[0][0]
	block2b_expand_bn (BatchNormalization)	(None, 64, 64, 192)	768	block2b_expand_conv[0][0]

block2b_expand_activation (Acti	(None, 64, 64, 192)	0	block2b_expand_bn[0][0]
block2b_dwconv (DepthwiseConv2D	(None, 64, 64, 192)	1728	block2b_expand_activation[0][0]
block2b_bn (BatchNormalization)	(None, 64, 64, 192)	768	block2b_dwconv[0][0]
block2b_activation (Activation)	(None, 64, 64, 192)	0	block2b_bn[0][0]
block2b_se_squeeze (GlobalAvera	(None, 192)	0	block2b_activation[0][0]
block2b_se_reshape (Reshape)	(None, 1, 1, 192)	0	block2b_se_squeeze[0][0]
block2b_se_reduce (Conv2D)	(None, 1, 1, 8)	1544	block2b_se_reshape[0][0]
block2b_se_expand (Conv2D)	(None, 1, 1, 192)	1728	block2b_se_reduce[0][0]
block2b_se_excite (Multiply)	(None, 64, 64, 192)	0	block2b_activation[0][0] block2b_se_expand[0][0]
block2b_project_conv (Conv2D)	(None, 64, 64, 32)	6144	block2b_se_excite[0][0]
block2b_project_bn (BatchNormal	(None, 64, 64, 32)	128	block2b_project_conv[0][0]
block2b_drop (Dropout)	(None, 64, 64, 32)	0	block2b_project_bn[0][0]
block2b_add (Add)	(None, 64, 64, 32)	0	block2b_drop[0][0] block2a_project_bn[0][0]
block2c_expand_conv (Conv2D)	(None, 64, 64, 192)	6144	block2b_add[0][0]
block2c_expand_bn (BatchNormali	(None, 64, 64, 192)	768	block2c_expand_conv[0][0]
block2c_expand_activation (Acti	(None, 64, 64, 192)	0	block2c_expand_bn[0][0]
block2c_dwconv (DepthwiseConv2D	(None, 64, 64, 192)	1728	block2c_expand_activation[0][0]
block2c_bn (BatchNormalization)	(None, 64, 64, 192)	768	block2c_dwconv[0][0]
block2c_activation (Activation)	(None, 64, 64, 192)	0	block2c_bn[0][0]
block2c_se_squeeze (GlobalAvera	(None, 192)	0	block2c_activation[0][0]
block2c_se_reshape (Reshape)	(None, 1, 1, 192)	0	block2c_se_squeeze[0][0]
block2c_se_reduce (Conv2D)	(None, 1, 1, 8)	1544	block2c_se_reshape[0][0]
block2c_se_expand (Conv2D)	(None, 1, 1, 192)	1728	block2c_se_reduce[0][0]
block2c_se_excite (Multiply)	(None, 64, 64, 192)	0	block2c_activation[0][0] block2c_se_expand[0][0]
block2c_project_conv (Conv2D)	(None, 64, 64, 32)	6144	block2c_se_excite[0][0]
block2c_project_bn (BatchNormal	(None, 64, 64, 32)	128	block2c_project_conv[0][0]
block2c_drop (Dropout)	(None, 64, 64, 32)	0	block2c_project_bn[0][0]
block2c_add (Add)	(None, 64, 64, 32)	0	block2c_drop[0][0] block2b_add[0][0]
block3a_expand_conv (Conv2D)	(None, 64, 64, 192)	6144	block2c_add[0][0]
block3a_expand_bn (BatchNormali	(None, 64, 64, 192)	768	block3a_expand_conv[0][0]
block3a_expand_activation (Acti	(None, 64, 64, 192)	0	block3a_expand_bn[0][0]
block3a_dwconv_pad (ZeroPadding	(None, 67, 67, 192)	0	block3a_expand_activation[0][0]
block3a_dwconv (DepthwiseConv2D	(None, 32, 32, 192)	4800	block3a_dwconv_pad[0][0]
block3a_bn (BatchNormalization)	(None, 32, 32, 192)	768	block3a_dwconv[0][0]

block3a_activation (Activation)	(None, 32, 32, 192)	0	block3a_bn[0][0]
block3a_se_squeeze (GlobalAveragePooling2D)	(None, 192)	0	block3a_activation[0][0]
block3a_se_reshape (Reshape)	(None, 1, 1, 192)	0	block3a_se_squeeze[0][0]
block3a_se_reduce (Conv2D)	(None, 1, 1, 8)	1544	block3a_se_reshape[0][0]
block3a_se_expand (Conv2D)	(None, 1, 1, 192)	1728	block3a_se_reduce[0][0]
block3a_se_excite (Multiply)	(None, 32, 32, 192)	0	block3a_activation[0][0] block3a_se_expand[0][0]
block3a_project_conv (Conv2D)	(None, 32, 32, 48)	9216	block3a_se_excite[0][0]
block3a_project_bn (BatchNormalization)	(None, 32, 32, 48)	192	block3a_project_conv[0][0]
block3b_expand_conv (Conv2D)	(None, 32, 32, 288)	13824	block3a_project_bn[0][0]
block3b_expand_bn (BatchNormalization)	(None, 32, 32, 288)	1152	block3b_expand_conv[0][0]
block3b_expand_activation (Activation)	(None, 32, 32, 288)	0	block3b_expand_bn[0][0]
block3b_dwconv (DepthwiseConv2D)	(None, 32, 32, 288)	7200	block3b_expand_activation[0][0]
block3b_bn (BatchNormalization)	(None, 32, 32, 288)	1152	block3b_dwconv[0][0]
block3b_activation (Activation)	(None, 32, 32, 288)	0	block3b_bn[0][0]
block3b_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	block3b_activation[0][0]
block3b_se_reshape (Reshape)	(None, 1, 1, 288)	0	block3b_se_squeeze[0][0]
block3b_se_reduce (Conv2D)	(None, 1, 1, 12)	3468	block3b_se_reshape[0][0]
block3b_se_expand (Conv2D)	(None, 1, 1, 288)	3744	block3b_se_reduce[0][0]
block3b_se_excite (Multiply)	(None, 32, 32, 288)	0	block3b_activation[0][0] block3b_se_expand[0][0]
block3b_project_conv (Conv2D)	(None, 32, 32, 48)	13824	block3b_se_excite[0][0]
block3b_project_bn (BatchNormalization)	(None, 32, 32, 48)	192	block3b_project_conv[0][0]
block3b_drop (Dropout)	(None, 32, 32, 48)	0	block3b_project_bn[0][0]
block3b_add (Add)	(None, 32, 32, 48)	0	block3b_drop[0][0] block3a_project_bn[0][0]
block3c_expand_conv (Conv2D)	(None, 32, 32, 288)	13824	block3b_add[0][0]
block3c_expand_bn (BatchNormalization)	(None, 32, 32, 288)	1152	block3c_expand_conv[0][0]
block3c_expand_activation (Activation)	(None, 32, 32, 288)	0	block3c_expand_bn[0][0]
block3c_dwconv (DepthwiseConv2D)	(None, 32, 32, 288)	7200	block3c_expand_activation[0][0]
block3c_bn (BatchNormalization)	(None, 32, 32, 288)	1152	block3c_dwconv[0][0]
block3c_activation (Activation)	(None, 32, 32, 288)	0	block3c_bn[0][0]
block3c_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	block3c_activation[0][0]
block3c_se_reshape (Reshape)	(None, 1, 1, 288)	0	block3c_se_squeeze[0][0]
block3c_se_reduce (Conv2D)	(None, 1, 1, 12)	3468	block3c_se_reshape[0][0]
block3c_se_expand (Conv2D)	(None, 1, 1, 288)	3744	block3c_se_reduce[0][0]
block3c_se_excite (Multiply)	(None, 32, 32, 288)	0	block3c_activation[0][0] block3c_se_expand[0][0]
block3c_project_conv (Conv2D)	(None, 32, 32, 48)	13824	block3c_se_excite[0][0]

block3c_project_bn (BatchNormal	(None, 32, 32, 48)	192	block3c_project_conv[0][0]
block3c_drop (Dropout)	(None, 32, 32, 48)	0	block3c_project_bn[0][0]
block3c_add (Add)	(None, 32, 32, 48)	0	block3c_drop[0][0] block3b_add[0][0]
block4a_expand_conv (Conv2D)	(None, 32, 32, 288)	13824	block3c_add[0][0]
block4a_expand_bn (BatchNormali	(None, 32, 32, 288)	1152	block4a_expand_conv[0][0]
block4a_expand_activation (Acti	(None, 32, 32, 288)	0	block4a_expand_bn[0][0]
block4a_dwconv_pad (ZeroPadding	(None, 33, 33, 288)	0	block4a_expand_activation[0][0]
block4a_dwconv (DepthwiseConv2D	(None, 16, 16, 288)	2592	block4a_dwconv_pad[0][0]
block4a_bn (BatchNormalization)	(None, 16, 16, 288)	1152	block4a_dwconv[0][0]
block4a_activation (Activation)	(None, 16, 16, 288)	0	block4a_bn[0][0]
block4a_se_squeeze (GlobalAvera	(None, 288)	0	block4a_activation[0][0]
block4a_se_reshape (Reshape)	(None, 1, 1, 288)	0	block4a_se_squeeze[0][0]
block4a_se_reduce (Conv2D)	(None, 1, 1, 12)	3468	block4a_se_reshape[0][0]
block4a_se_expand (Conv2D)	(None, 1, 1, 288)	3744	block4a_se_reduce[0][0]
block4a_se_excite (Multiply)	(None, 16, 16, 288)	0	block4a_activation[0][0] block4a_se_expand[0][0]
block4a_project_conv (Conv2D)	(None, 16, 16, 96)	27648	block4a_se_excite[0][0]
block4a_project_bn (BatchNormal	(None, 16, 16, 96)	384	block4a_project_conv[0][0]
block4b_expand_conv (Conv2D)	(None, 16, 16, 576)	55296	block4a_project_bn[0][0]
block4b_expand_bn (BatchNormali	(None, 16, 16, 576)	2304	block4b_expand_conv[0][0]
block4b_expand_activation (Acti	(None, 16, 16, 576)	0	block4b_expand_bn[0][0]
block4b_dwconv (DepthwiseConv2D	(None, 16, 16, 576)	5184	block4b_expand_activation[0][0]
block4b_bn (BatchNormalization)	(None, 16, 16, 576)	2304	block4b_dwconv[0][0]
block4b_activation (Activation)	(None, 16, 16, 576)	0	block4b_bn[0][0]
block4b_se_squeeze (GlobalAvera	(None, 576)	0	block4b_activation[0][0]
block4b_se_reshape (Reshape)	(None, 1, 1, 576)	0	block4b_se_squeeze[0][0]
block4b_se_reduce (Conv2D)	(None, 1, 1, 24)	13848	block4b_se_reshape[0][0]
block4b_se_expand (Conv2D)	(None, 1, 1, 576)	14400	block4b_se_reduce[0][0]
block4b_se_excite (Multiply)	(None, 16, 16, 576)	0	block4b_activation[0][0] block4b_se_expand[0][0]
block4b_project_conv (Conv2D)	(None, 16, 16, 96)	55296	block4b_se_excite[0][0]
block4b_project_bn (BatchNormal	(None, 16, 16, 96)	384	block4b_project_conv[0][0]
block4b_drop (Dropout)	(None, 16, 16, 96)	0	block4b_project_bn[0][0]
block4b_add (Add)	(None, 16, 16, 96)	0	block4b_drop[0][0] block4a_project_bn[0][0]
block4c_expand_conv (Conv2D)	(None, 16, 16, 576)	55296	block4b_add[0][0]
block4c_expand_bn (BatchNormali	(None, 16, 16, 576)	2304	block4c_expand_conv[0][0]

train_model block4c_expand_activation (Acti	(None, 16, 16, 576)	0	block4c_expand_bn[0][0]
block4c_dwconv (DepthwiseConv2D	(None, 16, 16, 576)	5184	block4c_expand_activation[0][0]
block4c_bn (BatchNormalization)	(None, 16, 16, 576)	2304	block4c_dwconv[0][0]
block4c_activation (Activation)	(None, 16, 16, 576)	0	block4c_bn[0][0]
block4c_se_squeeze (GlobalAvera	(None, 576)	0	block4c_activation[0][0]
block4c_se_reshape (Reshape)	(None, 1, 1, 576)	0	block4c_se_squeeze[0][0]
block4c_se_reduce (Conv2D)	(None, 1, 1, 24)	13848	block4c_se_reshape[0][0]
block4c_se_expand (Conv2D)	(None, 1, 1, 576)	14400	block4c_se_reduce[0][0]
block4c_se_excite (Multiply)	(None, 16, 16, 576)	0	block4c_activation[0][0] block4c_se_expand[0][0]
block4c_project_conv (Conv2D)	(None, 16, 16, 96)	55296	block4c_se_excite[0][0]
block4c_project_bn (BatchNormal	(None, 16, 16, 96)	384	block4c_project_conv[0][0]
block4c_drop (Dropout)	(None, 16, 16, 96)	0	block4c_project_bn[0][0]
block4c_add (Add)	(None, 16, 16, 96)	0	block4c_drop[0][0] block4b_add[0][0]
block4d_expand_conv (Conv2D)	(None, 16, 16, 576)	55296	block4c_add[0][0]
block4d_expand_bn (BatchNormali	(None, 16, 16, 576)	2304	block4d_expand_conv[0][0]
block4d_expand_activation (Acti	(None, 16, 16, 576)	0	block4d_expand_bn[0][0]
block4d_dwconv (DepthwiseConv2D	(None, 16, 16, 576)	5184	block4d_expand_activation[0][0]
block4d_bn (BatchNormalization)	(None, 16, 16, 576)	2304	block4d_dwconv[0][0]
block4d_activation (Activation)	(None, 16, 16, 576)	0	block4d_bn[0][0]
block4d_se_squeeze (GlobalAvera	(None, 576)	0	block4d_activation[0][0]
block4d_se_reshape (Reshape)	(None, 1, 1, 576)	0	block4d_se_squeeze[0][0]
block4d_se_reduce (Conv2D)	(None, 1, 1, 24)	13848	block4d_se_reshape[0][0]
block4d_se_expand (Conv2D)	(None, 1, 1, 576)	14400	block4d_se_reduce[0][0]
block4d_se_excite (Multiply)	(None, 16, 16, 576)	0	block4d_activation[0][0] block4d_se_expand[0][0]
block4d_project_conv (Conv2D)	(None, 16, 16, 96)	55296	block4d_se_excite[0][0]
block4d_project_bn (BatchNormal	(None, 16, 16, 96)	384	block4d_project_conv[0][0]
block4d_drop (Dropout)	(None, 16, 16, 96)	0	block4d_project_bn[0][0]
block4d_add (Add)	(None, 16, 16, 96)	0	block4d_drop[0][0] block4c_add[0][0]
block4e_expand_conv (Conv2D)	(None, 16, 16, 576)	55296	block4d_add[0][0]
block4e_expand_bn (BatchNormali	(None, 16, 16, 576)	2304	block4e_expand_conv[0][0]
block4e_expand_activation (Acti	(None, 16, 16, 576)	0	block4e_expand_bn[0][0]
block4e_dwconv (DepthwiseConv2D	(None, 16, 16, 576)	5184	block4e_expand_activation[0][0]
block4e_bn (BatchNormalization)	(None, 16, 16, 576)	2304	block4e_dwconv[0][0]
block4e_activation (Activation)	(None, 16, 16, 576)	0	block4e_bn[0][0]
block4e_se_squeeze (GlobalAvera	(None, 576)	0	block4e_activation[0][0]

block4e_se_reshape (Reshape)	(None, 1, 1, 576)	0	block4e_se_squeeze[0][0]
block4e_se_reduce (Conv2D)	(None, 1, 1, 24)	13848	block4e_se_reshape[0][0]
block4e_se_expand (Conv2D)	(None, 1, 1, 576)	14400	block4e_se_reduce[0][0]
block4e_se_excite (Multiply)	(None, 16, 16, 576)	0	block4e_activation[0][0] block4e_se_expand[0][0]
block4e_project_conv (Conv2D)	(None, 16, 16, 96)	55296	block4e_se_excite[0][0]
block4e_project_bn (BatchNormal	(None, 16, 16, 96)	384	block4e_project_conv[0][0]
block4e_drop (Dropout)	(None, 16, 16, 96)	0	block4e_project_bn[0][0]
block4e_add (Add)	(None, 16, 16, 96)	0	block4e_drop[0][0] block4d_add[0][0]
block5a_expand_conv (Conv2D)	(None, 16, 16, 576)	55296	block4e_add[0][0]
block5a_expand_bn (BatchNormali	(None, 16, 16, 576)	2304	block5a_expand_conv[0][0]
block5a_expand_activation (Acti	(None, 16, 16, 576)	0	block5a_expand_bn[0][0]
block5a_dwconv (DepthwiseConv2D	(None, 16, 16, 576)	14400	block5a_expand_activation[0][0]
block5a_bn (BatchNormalization)	(None, 16, 16, 576)	2304	block5a_dwconv[0][0]
block5a_activation (Activation)	(None, 16, 16, 576)	0	block5a_bn[0][0]
block5a_se_squeeze (GlobalAvera	(None, 576)	0	block5a_activation[0][0]
block5a_se_reshape (Reshape)	(None, 1, 1, 576)	0	block5a_se_squeeze[0][0]
block5a_se_reduce (Conv2D)	(None, 1, 1, 24)	13848	block5a_se_reshape[0][0]
block5a_se_expand (Conv2D)	(None, 1, 1, 576)	14400	block5a_se_reduce[0][0]
block5a_se_excite (Multiply)	(None, 16, 16, 576)	0	block5a_activation[0][0] block5a_se_expand[0][0]
block5a_project_conv (Conv2D)	(None, 16, 16, 136)	78336	block5a_se_excite[0][0]
block5a_project_bn (BatchNormal	(None, 16, 16, 136)	544	block5a_project_conv[0][0]
block5b_expand_conv (Conv2D)	(None, 16, 16, 816)	110976	block5a_project_bn[0][0]
block5b_expand_bn (BatchNormali	(None, 16, 16, 816)	3264	block5b_expand_conv[0][0]
block5b_expand_activation (Acti	(None, 16, 16, 816)	0	block5b_expand_bn[0][0]
block5b_dwconv (DepthwiseConv2D	(None, 16, 16, 816)	20400	block5b_expand_activation[0][0]
block5b_bn (BatchNormalization)	(None, 16, 16, 816)	3264	block5b_dwconv[0][0]
block5b_activation (Activation)	(None, 16, 16, 816)	0	block5b_bn[0][0]
block5b_se_squeeze (GlobalAvera	(None, 816)	0	block5b_activation[0][0]
block5b_se_reshape (Reshape)	(None, 1, 1, 816)	0	block5b_se_squeeze[0][0]
block5b_se_reduce (Conv2D)	(None, 1, 1, 34)	27778	block5b_se_reshape[0][0]
block5b_se_expand (Conv2D)	(None, 1, 1, 816)	28560	block5b_se_reduce[0][0]
block5b_se_excite (Multiply)	(None, 16, 16, 816)	0	block5b_activation[0][0] block5b_se_expand[0][0]
block5b_project_conv (Conv2D)	(None, 16, 16, 136)	110976	block5b_se_excite[0][0]
block5b_project_bn (BatchNormal	(None, 16, 16, 136)	544	block5b_project_conv[0][0]

train_model block5b_drop (Dropout)	(None, 16, 16, 136)	0	block5b_project_bn[0][0]
block5b_add (Add)	(None, 16, 16, 136)	0	block5b_drop[0][0] block5a_project_bn[0][0]
block5c_expand_conv (Conv2D)	(None, 16, 16, 816)	110976	block5b_add[0][0]
block5c_expand_bn (BatchNormali	(None, 16, 16, 816)	3264	block5c_expand_conv[0][0]
block5c_expand_activation (Acti	(None, 16, 16, 816)	0	block5c_expand_bn[0][0]
block5c_dwconv (DepthwiseConv2D	(None, 16, 16, 816)	20400	block5c_expand_activation[0][0]
block5c_bn (BatchNormalization)	(None, 16, 16, 816)	3264	block5c_dwconv[0][0]
block5c_activation (Activation)	(None, 16, 16, 816)	0	block5c_bn[0][0]
block5c_se_squeeze (GlobalAvera	(None, 816)	0	block5c_activation[0][0]
block5c_se_reshape (Reshape)	(None, 1, 1, 816)	0	block5c_se_squeeze[0][0]
block5c_se_reduce (Conv2D)	(None, 1, 1, 34)	27778	block5c_se_reshape[0][0]
block5c_se_expand (Conv2D)	(None, 1, 1, 816)	28560	block5c_se_reduce[0][0]
block5c_se_excite (Multiply)	(None, 16, 16, 816)	0	block5c_activation[0][0] block5c_se_expand[0][0]
block5c_project_conv (Conv2D)	(None, 16, 16, 136)	110976	block5c_se_excite[0][0]
block5c_project_bn (BatchNormal	(None, 16, 16, 136)	544	block5c_project_conv[0][0]
block5c_drop (Dropout)	(None, 16, 16, 136)	0	block5c_project_bn[0][0]
block5c_add (Add)	(None, 16, 16, 136)	0	block5c_drop[0][0] block5b_add[0][0]
block5d_expand_conv (Conv2D)	(None, 16, 16, 816)	110976	block5c_add[0][0]
block5d_expand_bn (BatchNormali	(None, 16, 16, 816)	3264	block5d_expand_conv[0][0]
block5d_expand_activation (Acti	(None, 16, 16, 816)	0	block5d_expand_bn[0][0]
block5d_dwconv (DepthwiseConv2D	(None, 16, 16, 816)	20400	block5d_expand_activation[0][0]
block5d_bn (BatchNormalization)	(None, 16, 16, 816)	3264	block5d_dwconv[0][0]
block5d_activation (Activation)	(None, 16, 16, 816)	0	block5d_bn[0][0]
block5d_se_squeeze (GlobalAvera	(None, 816)	0	block5d_activation[0][0]
block5d_se_reshape (Reshape)	(None, 1, 1, 816)	0	block5d_se_squeeze[0][0]
block5d_se_reduce (Conv2D)	(None, 1, 1, 34)	27778	block5d_se_reshape[0][0]
block5d_se_expand (Conv2D)	(None, 1, 1, 816)	28560	block5d_se_reduce[0][0]
block5d_se_excite (Multiply)	(None, 16, 16, 816)	0	block5d_activation[0][0] block5d_se_expand[0][0]
block5d_project_conv (Conv2D)	(None, 16, 16, 136)	110976	block5d_se_excite[0][0]
block5d_project_bn (BatchNormal	(None, 16, 16, 136)	544	block5d_project_conv[0][0]
block5d_drop (Dropout)	(None, 16, 16, 136)	0	block5d_project_bn[0][0]
block5d_add (Add)	(None, 16, 16, 136)	0	block5d_drop[0][0] block5c_add[0][0]
block5e_expand_conv (Conv2D)	(None, 16, 16, 816)	110976	block5d_add[0][0]
block5e_expand_bn (BatchNormali	(None, 16, 16, 816)	3264	block5e_expand_conv[0][0]

train_model block5e_expand_activation (Acti	(None, 16, 16, 816)	0	block5e_expand_bn[0][0]
block5e_dwconv (DepthwiseConv2D	(None, 16, 16, 816)	20400	block5e_expand_activation[0][0]
block5e_bn (BatchNormalization)	(None, 16, 16, 816)	3264	block5e_dwconv[0][0]
block5e_activation (Activation)	(None, 16, 16, 816)	0	block5e_bn[0][0]
block5e_se_squeeze (GlobalAvera	(None, 816)	0	block5e_activation[0][0]
block5e_se_reshape (Reshape)	(None, 1, 1, 816)	0	block5e_se_squeeze[0][0]
block5e_se_reduce (Conv2D)	(None, 1, 1, 34)	27778	block5e_se_reshape[0][0]
block5e_se_expand (Conv2D)	(None, 1, 1, 816)	28560	block5e_se_reduce[0][0]
block5e_se_excite (Multiply)	(None, 16, 16, 816)	0	block5e_activation[0][0] block5e_se_expand[0][0]
block5e_project_conv (Conv2D)	(None, 16, 16, 136)	110976	block5e_se_excite[0][0]
block5e_project_bn (BatchNormal	(None, 16, 16, 136)	544	block5e_project_conv[0][0]
block5e_drop (Dropout)	(None, 16, 16, 136)	0	block5e_project_bn[0][0]
block5e_add (Add)	(None, 16, 16, 136)	0	block5e_drop[0][0] block5d_add[0][0]
block6a_expand_conv (Conv2D)	(None, 16, 16, 816)	110976	block5e_add[0][0]
block6a_expand_bn (BatchNormali	(None, 16, 16, 816)	3264	block6a_expand_conv[0][0]
block6a_expand_activation (Acti	(None, 16, 16, 816)	0	block6a_expand_bn[0][0]
block6a_dwconv_pad (ZeroPadding	(None, 19, 19, 816)	0	block6a_expand_activation[0][0]
block6a_dwconv (DepthwiseConv2D	(None, 8, 8, 816)	20400	block6a_dwconv_pad[0][0]
block6a_bn (BatchNormalization)	(None, 8, 8, 816)	3264	block6a_dwconv[0][0]
block6a_activation (Activation)	(None, 8, 8, 816)	0	block6a_bn[0][0]
block6a_se_squeeze (GlobalAvera	(None, 816)	0	block6a_activation[0][0]
block6a_se_reshape (Reshape)	(None, 1, 1, 816)	0	block6a_se_squeeze[0][0]
block6a_se_reduce (Conv2D)	(None, 1, 1, 34)	27778	block6a_se_reshape[0][0]
block6a_se_expand (Conv2D)	(None, 1, 1, 816)	28560	block6a_se_reduce[0][0]
block6a_se_excite (Multiply)	(None, 8, 8, 816)	0	block6a_activation[0][0] block6a_se_expand[0][0]
block6a_project_conv (Conv2D)	(None, 8, 8, 232)	189312	block6a_se_excite[0][0]
block6a_project_bn (BatchNormal	(None, 8, 8, 232)	928	block6a_project_conv[0][0]
block6b_expand_conv (Conv2D)	(None, 8, 8, 1392)	322944	block6a_project_bn[0][0]
block6b_expand_bn (BatchNormali	(None, 8, 8, 1392)	5568	block6b_expand_conv[0][0]
block6b_expand_activation (Acti	(None, 8, 8, 1392)	0	block6b_expand_bn[0][0]
block6b_dwconv (DepthwiseConv2D	(None, 8, 8, 1392)	34800	block6b_expand_activation[0][0]
block6b_bn (BatchNormalization)	(None, 8, 8, 1392)	5568	block6b_dwconv[0][0]
block6b_activation (Activation)	(None, 8, 8, 1392)	0	block6b_bn[0][0]
block6b_se_squeeze (GlobalAvera	(None, 1392)	0	block6b_activation[0][0]
block6b_se_reshape (Reshape)	(None, 1, 1, 1392)	0	block6b_se_squeeze[0][0]

train_model block6b_se_reduce (Conv2D)	(None, 1, 1, 58)	80794	block6b_se_reshape[0][0]
block6b_se_expand (Conv2D)	(None, 1, 1, 1392)	82128	block6b_se_reduce[0][0]
block6b_se_excite (Multiply)	(None, 8, 8, 1392)	0	block6b_activation[0][0] block6b_se_expand[0][0]
block6b_project_conv (Conv2D)	(None, 8, 8, 232)	322944	block6b_se_excite[0][0]
block6b_project_bn (BatchNormal	(None, 8, 8, 232)	928	block6b_project_conv[0][0]
block6b_drop (Dropout)	(None, 8, 8, 232)	0	block6b_project_bn[0][0]
block6b_add (Add)	(None, 8, 8, 232)	0	block6b_drop[0][0] block6a_project_bn[0][0]
block6c_expand_conv (Conv2D)	(None, 8, 8, 1392)	322944	block6b_add[0][0]
block6c_expand_bn (BatchNormali	(None, 8, 8, 1392)	5568	block6c_expand_conv[0][0]
block6c_expand_activation (Acti	(None, 8, 8, 1392)	0	block6c_expand_bn[0][0]
block6c_dwconv (DepthwiseConv2D	(None, 8, 8, 1392)	34800	block6c_expand_activation[0][0]
block6c_bn (BatchNormalization)	(None, 8, 8, 1392)	5568	block6c_dwconv[0][0]
block6c_activation (Activation)	(None, 8, 8, 1392)	0	block6c_bn[0][0]
block6c_se_squeeze (GlobalAvera	(None, 1392)	0	block6c_activation[0][0]
block6c_se_reshape (Reshape)	(None, 1, 1, 1392)	0	block6c_se_squeeze[0][0]
block6c_se_reduce (Conv2D)	(None, 1, 1, 58)	80794	block6c_se_reshape[0][0]
block6c_se_expand (Conv2D)	(None, 1, 1, 1392)	82128	block6c_se_reduce[0][0]
block6c_se_excite (Multiply)	(None, 8, 8, 1392)	0	block6c_activation[0][0] block6c_se_expand[0][0]
block6c_project_conv (Conv2D)	(None, 8, 8, 232)	322944	block6c_se_excite[0][0]
block6c_project_bn (BatchNormal	(None, 8, 8, 232)	928	block6c_project_conv[0][0]
block6c_drop (Dropout)	(None, 8, 8, 232)	0	block6c_project_bn[0][0]
block6c_add (Add)	(None, 8, 8, 232)	0	block6c_drop[0][0] block6b_add[0][0]
block6d_expand_conv (Conv2D)	(None, 8, 8, 1392)	322944	block6c_add[0][0]
block6d_expand_bn (BatchNormali	(None, 8, 8, 1392)	5568	block6d_expand_conv[0][0]
block6d_expand_activation (Acti	(None, 8, 8, 1392)	0	block6d_expand_bn[0][0]
block6d_dwconv (DepthwiseConv2D	(None, 8, 8, 1392)	34800	block6d_expand_activation[0][0]
block6d_bn (BatchNormalization)	(None, 8, 8, 1392)	5568	block6d_dwconv[0][0]
block6d_activation (Activation)	(None, 8, 8, 1392)	0	block6d_bn[0][0]
block6d_se_squeeze (GlobalAvera	(None, 1392)	0	block6d_activation[0][0]
block6d_se_reshape (Reshape)	(None, 1, 1, 1392)	0	block6d_se_squeeze[0][0]
block6d_se_reduce (Conv2D)	(None, 1, 1, 58)	80794	block6d_se_reshape[0][0]
block6d_se_expand (Conv2D)	(None, 1, 1, 1392)	82128	block6d_se_reduce[0][0]
block6d_se_excite (Multiply)	(None, 8, 8, 1392)	0	block6d_activation[0][0] block6d_se_expand[0][0]
block6d_project_conv (Conv2D)	(None, 8, 8, 232)	322944	block6d_se_excite[0][0]

train_model block6d_project_bn (BatchNormal	(None, 8, 8, 232)	928	block6d_project_conv[0][0]
block6d_drop (Dropout)	(None, 8, 8, 232)	0	block6d_project_bn[0][0]
block6d_add (Add)	(None, 8, 8, 232)	0	block6d_drop[0][0] block6c_add[0][0]
block6e_expand_conv (Conv2D)	(None, 8, 8, 1392)	322944	block6d_add[0][0]
block6e_expand_bn (BatchNormali	(None, 8, 8, 1392)	5568	block6e_expand_conv[0][0]
block6e_expand_activation (Acti	(None, 8, 8, 1392)	0	block6e_expand_bn[0][0]
block6e_dwconv (DepthwiseConv2D	(None, 8, 8, 1392)	34800	block6e_expand_activation[0][0]
block6e_bn (BatchNormalization)	(None, 8, 8, 1392)	5568	block6e_dwconv[0][0]
block6e_activation (Activation)	(None, 8, 8, 1392)	0	block6e_bn[0][0]
block6e_se_squeeze (GlobalAvera	(None, 1392)	0	block6e_activation[0][0]
block6e_se_reshape (Reshape)	(None, 1, 1, 1392)	0	block6e_se_squeeze[0][0]
block6e_se_reduce (Conv2D)	(None, 1, 1, 58)	80794	block6e_se_reshape[0][0]
block6e_se_expand (Conv2D)	(None, 1, 1, 1392)	82128	block6e_se_reduce[0][0]
block6e_se_excite (Multiply)	(None, 8, 8, 1392)	0	block6e_activation[0][0] block6e_se_expand[0][0]
block6e_project_conv (Conv2D)	(None, 8, 8, 232)	322944	block6e_se_excite[0][0]
block6e_project_bn (BatchNormal	(None, 8, 8, 232)	928	block6e_project_conv[0][0]
block6e_drop (Dropout)	(None, 8, 8, 232)	0	block6e_project_bn[0][0]
block6e_add (Add)	(None, 8, 8, 232)	0	block6e_drop[0][0] block6d_add[0][0]
block6f_expand_conv (Conv2D)	(None, 8, 8, 1392)	322944	block6e_add[0][0]
block6f_expand_bn (BatchNormali	(None, 8, 8, 1392)	5568	block6f_expand_conv[0][0]
block6f_expand_activation (Acti	(None, 8, 8, 1392)	0	block6f_expand_bn[0][0]
block6f_dwconv (DepthwiseConv2D	(None, 8, 8, 1392)	34800	block6f_expand_activation[0][0]
block6f_bn (BatchNormalization)	(None, 8, 8, 1392)	5568	block6f_dwconv[0][0]
block6f_activation (Activation)	(None, 8, 8, 1392)	0	block6f_bn[0][0]
block6f_se_squeeze (GlobalAvera	(None, 1392)	0	block6f_activation[0][0]
block6f_se_reshape (Reshape)	(None, 1, 1, 1392)	0	block6f_se_squeeze[0][0]
block6f_se_reduce (Conv2D)	(None, 1, 1, 58)	80794	block6f_se_reshape[0][0]
block6f_se_expand (Conv2D)	(None, 1, 1, 1392)	82128	block6f_se_reduce[0][0]
block6f_se_excite (Multiply)	(None, 8, 8, 1392)	0	block6f_activation[0][0] block6f_se_expand[0][0]
block6f_project_conv (Conv2D)	(None, 8, 8, 232)	322944	block6f_se_excite[0][0]
block6f_project_bn (BatchNormal	(None, 8, 8, 232)	928	block6f_project_conv[0][0]
block6f_drop (Dropout)	(None, 8, 8, 232)	0	block6f_project_bn[0][0]
block6f_add (Add)	(None, 8, 8, 232)	0	block6f_drop[0][0] block6e_add[0][0]
block7a_expand_conv (Conv2D)	(None, 8, 8, 1392)	322944	block6f_add[0][0]

train_model			
block7a_expand_bn (BatchNormali	(None, 8, 8, 1392)	5568	block7a_expand_conv[0][0]
block7a_expand_activation (Acti	(None, 8, 8, 1392)	0	block7a_expand_bn[0][0]
block7a_dwconv (DepthwiseConv2D	(None, 8, 8, 1392)	12528	block7a_expand_activation[0][0]
block7a_bn (BatchNormalization)	(None, 8, 8, 1392)	5568	block7a_dwconv[0][0]
block7a_activation (Activation)	(None, 8, 8, 1392)	0	block7a_bn[0][0]
block7a_se_squeeze (GlobalAvera	(None, 1392)	0	block7a_activation[0][0]
block7a_se_reshape (Reshape)	(None, 1, 1, 1392)	0	block7a_se_squeeze[0][0]
block7a_se_reduce (Conv2D)	(None, 1, 1, 58)	80794	block7a_se_reshape[0][0]
block7a_se_expand (Conv2D)	(None, 1, 1, 1392)	82128	block7a_se_reduce[0][0]
block7a_se_excite (Multiply)	(None, 8, 8, 1392)	0	block7a_activation[0][0] block7a_se_expand[0][0]
block7a_project_conv (Conv2D)	(None, 8, 8, 384)	534528	block7a_se_excite[0][0]
block7a_project_bn (BatchNormal	(None, 8, 8, 384)	1536	block7a_project_conv[0][0]
block7b_expand_conv (Conv2D)	(None, 8, 8, 2304)	884736	block7a_project_bn[0][0]
block7b_expand_bn (BatchNormali	(None, 8, 8, 2304)	9216	block7b_expand_conv[0][0]
block7b_expand_activation (Acti	(None, 8, 8, 2304)	0	block7b_expand_bn[0][0]
block7b_dwconv (DepthwiseConv2D	(None, 8, 8, 2304)	20736	block7b_expand_activation[0][0]
block7b_bn (BatchNormalization)	(None, 8, 8, 2304)	9216	block7b_dwconv[0][0]
block7b_activation (Activation)	(None, 8, 8, 2304)	0	block7b_bn[0][0]
block7b_se_squeeze (GlobalAvera	(None, 2304)	0	block7b_activation[0][0]
block7b_se_reshape (Reshape)	(None, 1, 1, 2304)	0	block7b_se_squeeze[0][0]
block7b_se_reduce (Conv2D)	(None, 1, 1, 96)	221280	block7b_se_reshape[0][0]
block7b_se_expand (Conv2D)	(None, 1, 1, 2304)	223488	block7b_se_reduce[0][0]
block7b_se_excite (Multiply)	(None, 8, 8, 2304)	0	block7b_activation[0][0] block7b_se_expand[0][0]
block7b_project_conv (Conv2D)	(None, 8, 8, 384)	884736	block7b_se_excite[0][0]
block7b_project_bn (BatchNormal	(None, 8, 8, 384)	1536	block7b_project_conv[0][0]
block7b_drop (Dropout)	(None, 8, 8, 384)	0	block7b_project_bn[0][0]
block7b_add (Add)	(None, 8, 8, 384)	0	block7b_drop[0][0] block7a_project_bn[0][0]
top_conv (Conv2D)	(None, 8, 8, 1536)	589824	block7b_add[0][0]
top_bn (BatchNormalization)	(None, 8, 8, 1536)	6144	top_conv[0][0]
top_activation (Activation)	(None, 8, 8, 1536)	0	top_bn[0][0]
avg_pool (GlobalAveragePooling2	(None, 1536)	0	top_activation[0][0]
dropout (Dropout)	(None, 1536)	0	avg_pool[0][0]
dense (Dense)	(None, 1)	1537	dropout[0][0]
=====			
Total params: 10,785,072			
Trainable params: 1,537			
Non-trainable params: 10,783,535			
=====			

```
train_model
Found 2160 valid image filenames belonging to 1 classes.
Found 540 valid image filenames belonging to 1 classes.
Training Technical Model...
Training Batch size 128
Model Weight path : C:\Users\amaindola\Google Drive\Colab Notebooks\img-quality-assesment\nima\weights\
EfficientNetB3_technical_all-freezed.hdf5
Figure path : C:\Users\amaindola\Google Drive\Colab Notebooks\img-quality-assesment\nima\weights\
EfficientNetB3_technical_all-freezed.png
2021-08-08 09:11:56.320438: I tensorflow/compiler/mlir/mlir_graph_optimization_pass.cc:176] None of the MLIR
Optimization Passes are enabled (registered 2)
Epoch 1/20
2021-08-08 09:12:10.678613: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:12:10.678830: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
17/17 [=====] - ETA: 0s - loss: 0.4713 - accuracy: 0.50692021-08-08 09:14:03.447402: W
tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll';
dlerror: cudart64_110.dll not found
2021-08-08 09:14:03.447775: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
2021-08-08 09:14:03.633852: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:14:03.634185: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
2021-08-08 09:14:57.783290: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:14:57.783546: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
17/17 [=====] - 187s 10s/step - loss: 0.4713 - accuracy: 0.5069 - val_loss: 0.1910 -
val_accuracy: 0.8438
Epoch 2/20
2021-08-08 09:15:05.735466: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:15:05.735790: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
17/17 [=====] - ETA: 0s - loss: 0.1927 - accuracy: 0.84192021-08-08 09:17:13.290332: W
tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll';
dlerror: cudart64_110.dll not found
2021-08-08 09:17:13.290575: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
2021-08-08 09:17:17.172388: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:17:17.172665: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
2021-08-08 09:17:53.201943: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:17:53.202284: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
17/17 [=====] - 176s 10s/step - loss: 0.1927 - accuracy: 0.8419 - val_loss: 0.0674 -
val_accuracy: 0.9453
Epoch 3/20
2021-08-08 09:18:08.817846: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:18:08.818078: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
17/17 [=====] - ETA: 0s - loss: 0.1187 - accuracy: 0.92602021-08-08 09:20:14.362134: W
tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll';
dlerror: cudart64_110.dll not found
2021-08-08 09:20:14.362370: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
2021-08-08 09:20:18.145044: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:20:18.145312: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
2021-08-08 09:20:57.319359: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:20:57.319941: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
17/17 [=====] - 187s 11s/step - loss: 0.1187 - accuracy: 0.9260 - val_loss: 0.0380 -
val_accuracy: 0.9844
Epoch 4/20
2021-08-08 09:21:21.891110: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
```

2021-08-08 09:21:21.891408: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - ETA: 0s - loss: 0.0894 - accuracy: 0.95042021-08-08 09:23:33.528916: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:23:33.529172: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

2021-08-08 09:23:37.192343: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:23:37.192630: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

2021-08-08 09:24:27.001366: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:24:27.001691: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - 202s 11s/step - loss: 0.0894 - accuracy: 0.9504 - val_loss: 0.0304 - val_accuracy: 0.9859

Epoch 5/20

2021-08-08 09:24:41.651716: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:24:41.651979: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - ETA: 0s - loss: 0.2261 - accuracy: 0.94262021-08-08 09:26:59.445592: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:26:59.445900: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

2021-08-08 09:27:04.005915: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:27:04.006241: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

2021-08-08 09:27:39.500362: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:27:39.500706: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - 194s 11s/step - loss: 0.2261 - accuracy: 0.9426 - val_loss: 0.1097 - val_accuracy: 0.8359

Epoch 6/20

2021-08-08 09:27:56.788815: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:27:56.789062: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

16/17 [=====>..] - ETA: 6s - loss: 0.0825 - accuracy: 0.9561 2021-08-08 09:29:54.924739: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:29:54.925217: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - ETA: 0s - loss: 0.0813 - accuracy: 0.95772021-08-08 09:30:01.112817: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:30:01.113095: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

2021-08-08 09:30:45.007649: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:30:45.007900: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - 179s 10s/step - loss: 0.0813 - accuracy: 0.9577 - val_loss: 0.0304 - val_accuracy: 0.9922

Epoch 00006: ReduceLR0nPlateau reducing learning rate to 0.000100000000474974513.

Epoch 7/20

2021-08-08 09:30:52.292251: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:30:52.292731: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

17/17 [=====] - ETA: 0s - loss: 0.0746 - accuracy: 0.95402021-08-08 09:33:06.197092: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:33:06.197323: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

2021-08-08 09:33:07.268615: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found

2021-08-08 09:33:07.268882: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if

you do not have a GPU set up on your machine.
2021-08-08 09:33:51.807608: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:33:51.807841: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - 186s 11s/step - loss: 0.0746 - accuracy: 0.9540 - val_loss: 0.1242 - val_accuracy: 0.8328
Epoch 8/20
2021-08-08 09:33:58.633065: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:33:58.633350: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - ETA: 0s - loss: 0.0718 - accuracy: 0.9573
2021-08-08 09:36:00.151289: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:36:00.151688: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2021-08-08 09:36:03.990792: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:36:03.991403: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2021-08-08 09:36:39.931317: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:36:39.931666: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - 170s 10s/step - loss: 0.0718 - accuracy: 0.9573 - val_loss: 0.1125 - val_accuracy: 0.8297

Epoch 00008: ReduceLROnPlateau reducing learning rate to 1.0000000474974514e-05.
Epoch 9/20
2021-08-08 09:36:50.168010: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:36:50.168314: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - ETA: 0s - loss: 0.0709 - accuracy: 0.9642
2021-08-08 09:39:00.254400: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:39:00.254669: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2021-08-08 09:39:04.448420: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:39:04.448737: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2021-08-08 09:39:42.336978: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:39:42.337470: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - 181s 10s/step - loss: 0.0709 - accuracy: 0.9642 - val_loss: 2.2393 - val_accuracy: 0.8328
Epoch 10/20
2021-08-08 09:39:52.165247: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:39:52.165494: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - ETA: 0s - loss: 0.0736 - accuracy: 0.9609
2021-08-08 09:42:00.989381: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:42:00.989678: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2021-08-08 09:42:05.482880: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:42:05.483202: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2021-08-08 09:42:45.295258: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:42:45.295693: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
17/17 [=====] - 184s 11s/step - loss: 0.0736 - accuracy: 0.9609 - val_loss: 0.1119 - val_accuracy: 0.8328

Epoch 00010: ReduceLROnPlateau reducing learning rate to 1.0000000656873453e-06.
Epoch 00010: early stopping
Training Time (HH:MM:SS) : 00:31:00

```

train_model
Testing Model...
Found 300 valid image filenames belonging to 1 classes.
Testing Batch size:32
2021-08-08 09:43:06.077996: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:43:06.078224: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
[ 0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31]
[32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55
56 57 58 59 60 61 62 63]
[64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87
88 89 90 91 92 93 94 95]
[ 96  97  98  99 100 101 102 103 104 105 106 107 108 109 110 111 112 113
114 115 116 117 118 119 120 121 122 123 124 125 126 127]
[128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145
146 147 148 149 150 151 152 153 154 155 156 157 158 159]
[160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177
178 179 180 181 182 183 184 185 186 187 188 189 190 191]
[192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209
210 211 212 213 214 215 216 217 218 219 220 221 222 223]
[224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241
242 243 244 245 246 247 248 249 250 251 252 253 254 255]
1/10 [==>.....] - ETA: 2:32 [256 257 258 259 260 261 262 263 264 265 266 267 268
269 270 271 272 273
274 275 276 277 278 279 280 281 282 283 284 285 286 287]
[288 289 290 291 292 293 294 295 296 297 298 299]
10/10 [=====] - ETA: 0s2021-08-08 09:43:34.974521: W tensorflow/stream_executor/platform/
default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not found
2021-08-08 09:43:34.976316: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if
you do not have a GPU set up on your machine.
Traceback (most recent call last):
  File "C:/Users/amaindola/Google Drive/Colab Notebooks/img-quality-assesment/nima/model/train_model.py", line 183
, in <module>
    tech_train_result_df, tech_test_df, tech_weight_file = train_technical_model(p_model_name=arg_model_name,
  File "C:/Users/amaindola/Google Drive/Colab Notebooks/img-quality-assesment/nima/model/train_model.py", line 116
, in train_technical_model
    df_test['rating_predict'] = predictions
  File "C:\Users\amaindola\Anaconda3\envs\img-quality-assesment\lib\site-packages\pandas\core\frame.py", line 3044
, in __setitem__
    self._set_item(key, value)
  File "C:\Users\amaindola\Anaconda3\envs\img-quality-assesment\lib\site-packages\pandas\core\frame.py", line 3120
, in _set_item
    value = self._sanitize_column(key, value)
  File "C:\Users\amaindola\Anaconda3\envs\img-quality-assesment\lib\site-packages\pandas\core\frame.py", line 3768
, in _sanitize_column
    value = sanitize_index(value, self.index)
  File "C:\Users\amaindola\Anaconda3\envs\img-quality-assesment\lib\site-packages\pandas\core\internals\
construction.py", line 747, in sanitize_index
    raise ValueError(
ValueError: Length of values (320) does not match length of index (300)

Process finished with exit code 1

```