File - 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 vgg19 -s 3000 -b 64 -t technical -f true -e 20 -v 1 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.vgg19.VGG19

Freezing all base CNN layers.

Model compiled successfully.

Model: "model"

Layer (type)	Output Shape 	Param # =======
<pre>input_1 (InputLayer)</pre>	[(None, 256, 256, 3)]	0
block1_conv1 (Conv2D)	(None, 256, 256, 64)	1792
block1_conv2 (Conv2D)	(None, 256, 256, 64)	36928
block1_pool (MaxPooling2D)	(None, 128, 128, 64)	0
block2_conv1 (Conv2D)	(None, 128, 128, 128)	73856
block2_conv2 (Conv2D)	(None, 128, 128, 128)	147584
block2_pool (MaxPooling2D)	(None, 64, 64, 128)	0
block3_conv1 (Conv2D)	(None, 64, 64, 256)	295168
block3_conv2 (Conv2D)	(None, 64, 64, 256)	590080
block3_conv3 (Conv2D)	(None, 64, 64, 256)	590080
block3_conv4 (Conv2D)	(None, 64, 64, 256)	590080
block3_pool (MaxPooling2D)	(None, 32, 32, 256)	0
block4_conv1 (Conv2D)	(None, 32, 32, 512)	1180160
block4_conv2 (Conv2D)	(None, 32, 32, 512)	2359808
block4_conv3 (Conv2D)	(None, 32, 32, 512)	2359808
block4_conv4 (Conv2D)	(None, 32, 32, 512)	2359808
block4_pool (MaxPooling2D)	(None, 16, 16, 512)	0
block5_conv1 (Conv2D)	(None, 16, 16, 512)	2359808
block5_conv2 (Conv2D)	(None, 16, 16, 512)	2359808
block5_conv3 (Conv2D)	(None, 16, 16, 512)	2359808
block5_conv4 (Conv2D)	(None, 16, 16, 512)	2359808
block5_pool (MaxPooling2D)	(None, 8, 8, 512)	0
global_average_pooling2d (Gl	(None, 512)	0
dropout (Dropout)	(None, 512)	0
dense (Dense)	(None, 1)	513
Total params: 20,024,897		========

Total params: 20,024,897 Trainable params: 513

Non-trainable params: 20,024,384

Found 2160 valid image filenames belonging to 1 classes.

Found 540 valid image filenames belonging to 1 classes.

Training Technical Model...

Training Batch size 64, metric : ['mean_absolute_error']

Figure path : C:\Users\amaindola\Google Drive\Colab Notebooks\img-quality-assesment\nima\weights\

VGG19_technical_all-freezed.png

Model Weight path : C:\Users\amaindola\Google Drive\Colab Notebooks\img-quality-assesment\nima\weights\

```
VGG19_technical_all-freezed.hdf5
Epoch 1/20
0439 - val_mean_absolute_error: 0.2077
Epoch 2/20
0897 - val_mean_absolute_error: 0.2987
Epoch 3/20
0431 - val_mean_absolute_error: 0.2063
Epoch 4/20
0424 - val_mean_absolute_error: 0.2046
Epoch 5/20
0312 - val_mean_absolute_error: 0.1755
Epoch 6/20
0215 - val_mean_absolute_error: 0.1451
Epoch 7/20
0177 - val_mean_absolute_error: 0.1319
Epoch 8/20
0101 - val_mean_absolute_error: 0.0993
Epoch 9/20
0059 - val_mean_absolute_error: 0.0754
Epoch 10/20
0032 - val_mean_absolute_error: 0.0554
Epoch 11/20
0023 - val_mean_absolute_error: 0.0459
Epoch 12/20
0021 - val_mean_absolute_error: 0.0446
Epoch 13/20
0014 - val_mean_absolute_error: 0.0362
Epoch 14/20
3245e-04 - val_mean_absolute_error: 0.0274
Epoch 15/20
0019 - val_mean_absolute_error: 0.0428
Epoch 16/20
4692e-04 - val_mean_absolute_error: 0.0279
Epoch 00016: ReduceLROnPlateau reducing learning rate to 0.00010000000474974513.
Epoch 17/20
7091e-04 - val_mean_absolute_error: 0.0297
Epoch 18/20
8406e-04 - val_mean_absolute_error: 0.0287
Epoch 00018: ReduceLROnPlateau reducing learning rate to 1.0000000474974514e-05.
Epoch 19/20
2929e-04 - val_mean_absolute_error: 0.0278
Epoch 20/20
5475e-04 - val_mean_absolute_error: 0.0278
Epoch 00020: ReduceLROnPlateau reducing learning rate to 1.0000000656873453e-06.
 Training Time (HH:MM:SS): 03:48:26
Traceback (most recent call last):
File "C:/Users/amaindola/Google Drive/Colab Notebooks/img-quality-assesment/nima/model/train_model.py", line 301
, in <module>
 p_weight_path=arg_aes_weight_path,
File "C:/Users/amaindola/Google Drive/Colab Notebooks/img-quality-assesment/nima/model/train_model.py", line 211
```

File - train_model

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, in train_technical_model
 train_result_df = nima_tech_cnn.train_model(train_generator, valid_generator, epochs=p_epochs,
ValueError: too many values to unpack (expected 2)

Process finished with exit code 1